

# LabCollector User's guide

Your Laboratory management solution at your finger tips!



# **Table of contents**

LabCollector	7
Download the manual (PDF)	7
1. LabCollector Introduction	
1.1 IT Requirements	8
1.2 LabCollector Interface	9
1.3 Modules	9
1.3.1 Records	10
1.4 Add-ons	11
1.3.2 Fields	
2. Getting started	
2.1 First Time access	
2.2 First login	
2.3 Super administrator account	
2.4 Password reset	
2.5 Homepage customization NEW!	
3. Setup & Configuration	
3.1 Interface & main LabCollector setup	
3.1.1 Login and LDAP Options	
3.1.1.1 Configuring SSO for LabCollector with JumpCloud	
3.1.1.2 Configuring SSO for LabCollector with Azure Active Directory	
3.1.2 Proxy, Tasks Scheduler and Email alerts settings	
3.1.3 Printers & Labels	
3.1.4 Rack Scanners	
3.1.4.1 Scan Server	
3.1.4.2 Ziath Scanner	
3.1.4.3 Fluidx Scanner	
3.1.4.4 Micronic Tracxer	
3.1.5 Web services API	
3.1.6 Lab name, logo, modules name, google translation	
3.1.7 Export and Print Setup & Models	
3.1.8 Upload / Add Add-ons	
3.1.9 Home page external links	
3.1.10 Newsfeeds and Twitter	43
3.1.11 Module Search & Form Options	44
3.1.12 Access Permissions	46
3.1.13 Integrations	46
3.1.13.1 Artificial Intelligence (AI)	47
3.2 Users	50
3.2.1 Manage users	50
3.2.1.1 Add/Create Users	51
3.2.1.2 Remove/Archive Users	
3.2.2 Groups definitions	53
3.2.3 Manage authorized IPs	
3.2.4 User action tracking	57

	3.3 Licensing	57
4.	Preferences	59
	4.1 Address book options	59
	4.2 Alerts use (on Screen or by email)	
	4.2.1 Expired and finishing lots/articles	61
	4.2.2 Orders alerts	
	4.2.3 Equipment module	63
	4.2.4 Storage tube alert	63
	4.3 Animals options	65
	4.4 Antibodies options	66
	4.5 Document categories	66
	4.6 Equipment options	
	4.7 Export setup & models	
	4.8 Lab Bookmarks	
	4.9 Organisms	
	4.10 Primers options	
	4.11 Process & Actions type	
	4.11.1 Add Process to one or a list of samples at once	
	4.11.2 Add activity log for storage actions	
	4.12 Reagents & Supplies preferences	
	4.12.1 Main options	
	4.12.2 Lot management	
	4.12.3 Risks and safety	
	4.12.4 Orders	-
	4.13 Reasons	
	4.14 Sample Types	
	4.15 Seller's management	
	<ul><li>4.16 Microarray Options</li><li>4.17 Storage Tooltip Fields</li></ul>	
-		
5.	Customization	
	5.1 Record preferences (custom ID numbering/barcodes)	
	<ul><li>5.2 The compliance pack</li><li>5.3 Defaut fields</li></ul>	
	5.3.1 General options 5.3.2 Field options	
	•	
	5.4 Custom fields	
	5.4.1 Custom fields group	
	5.4.2 Analysis tab group	
~	5.5 Custom modules design	
6.	Storage System Management	
	6.1 Configure the storage system	
	6.1.1 Defining facilities and locations	
	6.1.2 Creating storage equipment	
	6.1.3 Defining temperatures	
	6.1.4 Define storage system options	
	6.1.5 Box models	
	6.1.6 Creating boxes & Racks1	LUD

	6.1.7 Creating visotubes for straws	
	6.1.8 Replicating box structures	
	6.1.9 Delete or clean a box	
	6.1.10 Manage storage for Reagents & Supplies module	111
	6.2 Managing storage equipment contents	
7.	Entering & Managing data	113
	7.1 Enter a new record	113
	7.1.1 Waiting data	
	7.1.2 ELN, Workflow and LSM link	116
	7.2 Animal management	116
	7.2.1 Room Scheduler	119
	7.3 Storage stock	119
	7.3.1 Define storage at data entry time	120
	7.3.2 Define storage on existing record	121
	7.3.3 Secondary Storage	123
	7.4 Removing & adding aliquots, tubes or main storage	124
	7.4.1 Aliquots management	124
	7.4.2 Storage Check-in/out System	124
	7.4.3 Removing tubes	128
	7.4.4 Volume deduction	
	7.4.5 Move tube	
	7.4.6 Remove multiple sample's main storage with the worklist tool	
	7.4.7 Adding new tubes/vials	
	7.5 Edit, archive and delete records	
	7.5.1 Multiple record archives	
	7.5.2 Multiple record deletions	
	7.5.3 Data transfer between users	
	7.6 Barcodes editing	
	7.6.1 Barcodes types	
	7.6.2 Single barcode label printing	
	7.7 Importing data	
	7.7.1 Import data of external files	
	7.7.2 Import storage	
	7.7.3 Import data from GenBank (with annotations)	
	7.8 Mass data update	
	7.8.1 Mass price updater	
	7.8.2 Mass record updater	142
	7.9 Inventory updater tool	144
	7.9.1 Quick destock	145
	7.9.2 Internal consumptions	
	7.9.3 Export all lots/stock	
	7.9.4 Export Value Report	
	7.10 Backups	147
	7.10.1 Database dumping	
	7.10.2 Automatic full backups (with LabCollector Manager)	148
	7.11 Audit trail	149

8.	Searching data	153
	8.1 Keyword cross-search table between modules	153
	8.2 Search in each module	153
	8.3 Automatic relation between records	155
	8.4 Primers and sequences cross-search	
	8.5 Barcode search	
	8.5.1 Reagents and supplies specificities	157
	8.6 Wireless access (Mobility)	157
	8.7 Exporting/Reporting	158
	8.7.1 Export data	158
	8.7.2 Storage report	
	8.7.3 Stock report	160
	8.8 Printing records	160
	8.9 Linking records	160
	8.9.1 Generic tab links	160
	8.9.2 Custom field links	162
	8.9.3 Automatic relation	162
	8.10 Derived samples	162
9.	Order list management	164
	9.1 Ordering articles	
	9.1.1 Create budget accounts	
	9.1.2 Budgets follow up	
	9.1.3 Put item in the order list	
	9.2 Ordering from other modules	167
	9.3 Purchase order list management	
	9.3.1 Manage an order	
	9.3.2 Order directly from Sigma, VWR, Life Technologies, Qiagen and Storage	je
	Accessories	171
	9.3.3 Manage PO templates	
	9.3.4 Generate PO forms	
	9.3.5 Lots management	
	9.3.6 Manage Invoices	
	9.3.7 Primers specific ordering management tool (synthesis order)	178
10	. Tools	
	10.1 Storage Browser	
	10.2 Barcode Label Series	
	10.2.1 Generic printing	
	10.2.2 A4 printing	
	10.2.3 Direct EPL printing	
	10.2.4 Dymo printing	
	10.3 Purchase Order Management	
	10.4 Batch Generator (Rack Scanner)	186
	10.4.1 Direct Scanner Trigger	186
	10.4.2 File Import	
	10.4.3 Generic rack/Box import	
	10.4.4 Process rack import	
	10.4.5 Volume deduction	190

	10.5 Manage memorized items	.191
	10.6 Manage project code	194
	10.7 Manage Genotype tags	.195
	10.8 Lists and Series	
	10.9 Staff Contacts	196
	10.10 Lab Bookmarks	.196
	10.11 Message center	.197
	10.12 Recipes/Production	
	10.12.1 Managing Recipes	.198
	10.12.2 Using Recipes	
	10.13 Disposal List Management	
	10.14 Memorized Searches	
11	. Security	.211
	. Expanding LabCollector	
	12.1 Add-on modules	214
	12.2 Add-ons loading requirements	
13	. Updating and uploading	
	13.1 Intermediate or corrective updates	
	13.2 Upgrades	.217

v6.211 - Mar 2024



# LabCollector User's guide

Your Laboratory management solution at your finger tips!



Download the manual (PDF) Download the manual (PDF).

# **1. LabCollector Introduction**

Thank you for choosing the LabCollector system for the management of your lab information. LabCollector is an Intranet-based (totally web-based) application that brings all the comfort and power of your lab network to access and manage a great variety of information. If you install it on one of your lab computers it can play the role of a server for the other computers in the lab.

LabCollector has been created using Open Source tools and languages to keep it a low-cost solution, insofar as is possible, and so can be installed on any operating system (Windows, macOS X, Linux...). Furthermore, the use of web technology makes it a light solution, as no "client" applications have to be installed on each computer. The interface is accessed through a simple and recent Internet browser (Internet Explorer, Firefox, Safari ...). Therefore, lab information and data is accessible from anywhere. The support of wireless devices provides even more flexibility.

With the incorporation of the latest technologies such as Ajax, we expect to provide you with a dynamic and comfortable interface.

This manual will give you an overview of all the features available in LabCollector. All these functions will be described in detail and with step-by-step procedures in our **KB**: <u>Knowledge Base.</u>

# **1.1 IT Requirements**

LabCollector architectural diagram is like below.



IT Requirements and other information:

•	<ul> <li>Windows OS (Win 10 or WinServer 2012+)</li> <li>CPU : Min. (2 Cores) , Recommended (4 Cores)</li> <li>Memory : Min. (4GB) , Recommended (8GB)</li> </ul>

System requirements:	<ul> <li>Windows 7/10 and WinServer 2012 and up, Linux, Unix and MacOS X 10.x. and many others.</li> <li>Apache, Nginx, IIS Web Server. IIS is a standard option of Windows. Apache runs on Windows too.</li> <li>PHP 5.3 to 5.6 for LabCollector V5.423; PHP 5.6 to 7.3 for LabCollector V6.0 (http://www.php.net)</li> <li>MySQL database server 5.x or MariaDB or PerconaSQL (http://www.mysql.com)</li> <li>Any recent Internet browser with Ajax technology support.</li> </ul>
Login Validations:	<ul> <li>Supports LDAP &amp; AD (SSO)</li> <li>Please click the  KB: Knowledge Base link to see more about these options.</li> </ul>
User level permissions in LC:	<ul> <li>Super-Admin; Admin; Staff; Staff+; Visitor</li> <li>Please click the  KB: <u>KnowledgeBase link to read more on</u> <u>it</u>.</li> </ul>
Data Backup (Automated):	Possible with LabCollector Server Manager

LabCollector can be accessed online in your choice of browser. It will look like this when you login into it.

#### **1.2 LabCollector Interface**

This is how LabCollector will look like when you login into it.

Below is an example of interface where add-ons are installed already.



You can read in detail about CKB:<u>Labcollector interface</u> in our Knowledge Base.

#### **1.3 Modules**

A module in LabCollector helps labs to create inventory for their lab requirements. There are by default 11 modules in LabCollector.



All the modules are in blue colored boxes. Inside the modules you can create records and enter information inside the fields.

Records are explained in  $\square$  section 1.3.1 and fields are explained in  $\square$  section 1.3.2.

# 苯 Tips / Hints

LabCollector has the possibility to create custom modules. These are modules that are not present inside the LabCollector by default. You can check this knowledge Base to see more KB: how to create a custom module.

# 1.3.1 Records

Records are lab items that you create an inventory for. It can reagents you use in the lab or chemicals, antibodies, etc. In LabCollector these data are stored inside respective module. Each record has "by default" fields.

Learn more about fields in  $\square$  section 5.3.

For example, in Reagents & Supplies, when you open the module which has previously entered records, you will see the records like below.

	<b>Q</b> Se	arch for					Вс	rcode
	DD Module	S Tools Preferences	이나 아이 Admin	Lab	ollector			rts N
	7	Reagents & Su Modules / Reagents & Su	pplies	eyword Lot IE	Q Clear	e Frank	E New Rec ه	
	47 results f	ound   ⊕ Show/Hide all recor	ds on page					B• Ø
	ID 🌲		Comments & Description	Category	🛊 Sollor 🔶	CAS Number 🔷 🌲		
		PBS - Phosphate-B uffered Saline (10X, pH 7.4)	Gibco by lifetechnologies 10X, pH 7,4 Numéro de catalogue: 70011044	Buffer	Thermo Scientific (Th ermo Scientific SAS)	A2154D6	▣☴∥∁◬	₽∥Ш७
	<b>D</b> 2	Triton™ X-100	Sigma	Liquid Chemical	Sigma (Sigma-Aldric h Company Ltd.)	\$745A254	▣◪∥◐◬	₽∥Ш₩
	□3	TBST 1X	Tris Buffered Saline, with Tween® 20, pH 8.0	Liquid Chemical	Sigma (Sigma-Aldric h Company Ltd.)	V01346	₽∥0&	₽∥ <b>™</b>
	□4	BSA (Bovine Serum Albumin)	Lyophilized powder, BioReagent, suitable for cell culture.	Powder Reagent	Sigma (Sigma-Aldric h Company Ltd.)	U201345	\\\\ \\\\ \\\\ \\\\ \\\\ \\\\ \\\\ \\\\ \\\\	₽∥Ш @
ecords in a Module	□ 5	Distilled Water (D/ W)		Liquid Reagent		Q54845S2	\	₽∥Ш @
module	□6	5% BSA Blocking Buf fer	Store at 4°C	Buffer			\	₽∥Ш @
	<b>C</b> 7	Hoechst	Hoechst Stain solution 33258	Liquid Reagent	Sigma (Sigma-Aldric h Company Ltd.)	23491-45-4	₽∥0&	₽∥ <b>™</b>
	<b>D</b> 9	Doxycycline	Doxycycline hyclate	Powder Reagent		24390-14-5	702	₽∥Ш13
	10	MTT powder	Thiazolyl Blue Tetrazolium Bromide (500 mg)	Powder Reagent	Sigma (Sigma-Aldric h Company Ltd.)		₽∥0&	₽∥ <b>₩</b> ₩
	⊡n	DMEM, high glucos e	Gibco™	Buffer	Thermo Scientific (Th ermo Scientific SAS)		70 C	₽∥₪₿

You can read about it in detail in our Knowledge Base **KB**: what are records.

#### 1.4 Add-ons

Add-ons are additional applications that complement the modules. These need to be purchased from us. You can download the add-on and install them in your LabCollector.

The information how to upload add-ons in LabCollector is explained in  $\bigcirc$  <u>section 3.1.8</u>. You can read more about add-ons in  $\square$  <u>Section 11</u>.



# 🔭 Tips / Hints

We can also make a custom module for you, if you require. Please contact us.

#### 1.3.2 Fields

Fields are present inside a record in a module. When you create a new record, there are fields present where you can add specific information about the record. In each module, the fields are present by default.

Please read Knowledge Base to **KB**: <u>know more about fields</u>.

However, you can create custom fields if you require.

Please see the Knowledge Base to see CKB: how to create custom fields.

For example if you have created a record, you can click on it to see the information inside each field.



# 2. Getting started

The below topics will help you to start with LabCollector: perform first time access, login, setting up users and passwords.

You can check all the Knowledge Base in the KB: <u>category how to start with LabCollector</u>.

#### 2.1 First Time access

Be aware that on Windows local installations (i.e. not for other OS or hosted by AgileBio) the LabCollector Server manager will be the first part of LabCollector you see. It is also useful for handling updates, backups, and migrating data (For more details, please see the manual under the  $Help \rightarrow User Guide$  section of the LabCollector Server Manager).

You may also access LabCollector in an internet browser with one click from the LabCollector Server Manager.

InstanceName       Caption       Version       Path         ImatanceName       Caption       6.0       C:\Program Files (k86)\AgleBio\LabCollector\www\labCollector\www\labCollector\www\labCollector\www\labDolla	Update C. Open						
Image: State		InstanceName	Caption	Version	Path		
Iab531       Lab531       5.422       C:\Program Files (x85)\AgileBio\LabCollector\www\lab531         Iab531b       Lab531b       5.4       C:\Program Files (x85)\AgileBio\LabCollector\www\lab531b         Iab54       Iab54       Iab54       C:\Program Files (x85)\AgileBio\LabCollector\www\lab541         Iabtr       Lab TR       6.0       C:\Program Files (x85)\AgileBio\LabCollector\www\lab54         Iabtr       Lab TR       6.0       C:\Program Files (x85)\AgileBio\LabCollector\www\lab54         S423       S423       S423       S423       S423		lab	Demo Lab	6.0	C:\Program Files (x86)\AgileBio\LabCollector\www\lab		
Iab531b       Lab531b       5.4       C:\Program Files (x86)\AgileBio\LabCollector\www\ab531b         Iab54       Iab54       Iab54       C:\Program Files (x86)\AgileBio\LabCollector\www\ab541         Iabtr       Lab TR       6.0       C:\Program Files (x86)\AgileBio\LabCollector\www\ab54         Iabtr       Lab TR       6.0       C:\Program Files (x86)\AgileBio\LabCollector\www\ab54         S423       S423       S423       S423		lab2	Lab Name	5.423	C:\Program Files (x86)\AgileBio\LabCollector\www.Vab2		
Iab54     Iab54     Iab54     S41     C:\Program Files (x86)\AgileBio\LabCollector\www\Vab54       Iabtr     Iab TR     6.0     C:\Program Files (x86)\AgileBio\LabCollector\www\Vabtr		lab531	Lab531	5.422	C:\Program Files (x86)\AgileBio\LabCollector\www\Jab531		
Iabtr     Lab TR     6.0     C:\Program Files (x86)\AgileBio\LabCollector\www\labtr       Iector     5.423		lab531b	Lab531b	5.4	C:\Program Files (x86)\AgileBio\LabCollector\www\lab531b		
ector		lab54	lab54new	5.41	C:\Program Files (x86)\AgileBio\LabCollector\www\lab54		
		labtr	Lab TR	6.0	C:\Program Files (x86)\AgileBio\LabCollector\www\labtr		

LabCollector is accessed with a recent Internet browser (Firefox, Chrome, Edge, etc.).

# \rm Marning

Internet Explorer can be used too but it's not supported anymore.

You can also open your LabCollector directly from the browser.

On the LabCollector server, you have to call for example:

https://localhost or https://127.0.0.1

- OR
- <u>https://computer\_name</u> or <u>https://computer\_IP</u>

On remote computers you have to call the server name or IP address, like:

<u>https://computer\_name</u> or <u>https://computer\_IP</u>

For other OS, please see our section  $\subseteq$  Manuals to find the right installation manual.

#### **2.2 First login**

When logging into LabCollector for the first time, you must enter admin for the User Name and admin for the Password. We strongly recommend modifying this default credential.



#### Note

It's advised to change your password during your first LabCollector use.

After logging into LabCollector, you will enter on the homepage. The homepage is completely customizable (section 2-5).

The main user name is the "Super Administrator". This account has full powers to make changes within all of LabCollector.

#### 2.3 Super administrator account

One of the first steps is to define the Lab member corresponding to the super-administrator and change the password of this account.

- 1. Go to: Admin→Users & Staff→Manage Lab→Members→Add new member
- 2. Fill in the form.

#### 🔔 Note

Don't forget to fill in the email field to receive notifications.

얌 Active Lab Members	Hidden/Old Lab Members -	음t Add New Member?
	Name:	
	Lab:	
	Address:	
	City:	
	Postal Code:	
	Country:	
	Tel:	
	Email:	
		Create New Lab Member

- 3. Go to: Admin  $\rightarrow$  Users & Staff  $\rightarrow$  Manage Users
- 4. Edit Super-Administrator login information, change the password, and associate the super-

administrator to the corresponding staff contact (Real person).

# Warning Be careful about the password encryption mode used when you change your password. A Super Administrator A Super Administrator

Password:	Login	admin	
	Password		
Real Person: John Doe Lópèz 🔹	Verify Password		
	Real Person	John Doe Lópèz	•

# 2.4 Password reset

- If users forgot their passwords, they can click on the "Forgot your password?" link (Sending emails using LabCollector has to be set up, see C <u>chapter 3.1.2</u>).
- They will be redirected on a dedicated form they have to complete with their username to receive a password reset email.



• If the user does not have an email associated with the account (see above), the super administrator must reset the password and deliver the new password to the user.

Password reset confirmation sent successfully!.
taining a temporary link that will allow you to reset your password within the next hour.
eck your spam folder if the email doesn't appear within a few minutes.
Labcollector Reset password
SUBMIT
Back to Sign in © LabCollector by AgileBio

• You will receive an email like below at your registered email ID.

Répon	dre 🛱 Répondre à tous 🛱 Transférer
	sauvadet@agilebio.com sauvadet@agilebio.com
	LabCollector password reset
Dear Use	er,
We rece	ived a request to reset your password for your LabCollector account.
To reset	your password, you must follow the following link:
reset pa	ssword
Please ig	gnore this message if you are not the author of this request.

Sincerely,

AgileBio team solution

• When you click on the reset password link you will be redirected and you will see the below page in our browser.

	Reset password
New pas	sword
Retype n	ew password
	SUBMIT
	© LabCollector by AgileBio

# 2.5 Homepage customization NEW!

By default, the homepage of LabCollector is like the previous version composed of five sections:

- 1. Modules
- 2. Add-ons
- 3. Links
- 4. Posts
- 5. RSS feed



# 苯 Tips / Hints

Now, each user can customize his homepage with panels.

You can also read the Knowledge Base EKB: how to configure panel or read below.

On the top right of the screen, click on the avatar icon. In this menu, you can select a new language, log out from your session and access your profile.



**New!** Lock-screen option added.

In your profile, you can modify your lab member information as you can do through  $Admin \rightarrow Users \& Staff \rightarrow Manage Lab Members$ .

You can also modify your avatar, and if you have a Gravatar, it will automatically be used through your email address; your default language and go to the customization page.

G.	Background color: #5390a4
	Text color:
	#0d8d8f
LabCollector la	nguage
LabCollector la	
LabCollector la	Choose your language:
LabCollector la	
LabCollector la	Choose your language:
LabCollector la	Choose your language:

On this page, you will create panels to organize your homepage. You can create as many panels as you want. In this panel, you can insert links to modules and custom modules, add-ons, link items (see  $\underbrace{\square}$  section 3.1.9), and tools (see  $\underbrace{\square}$  section 10).

- 1. Click on Add a new panel
- 2. Give it a name
- 3. Navigate between tabs and click on the items of interest.

						1	Add a new panel
Daily panel 2	6 13	Modules & custom	modules	Addons Links	Tools 3		
Click on available elements to add it in this panel 🛛 🕬		00	C	THE	ēð	R	SPO
No panel configured.		Strains & Cells	Plasmids	Primers	Reagents	Samples	Antibodies

- 4. If you do a mistake, click on the minus icon to remove an item.
- 5. Save (or cancel all).



Once the panel is created, you can choose the display to:



• A. One column display

	J Tooks	Preferences	아나 아마 Admin		LabCollector
Daily panel	s	amples 7002	Cell Process	Manage Momorized Items	Storago Browsor
Laboratory Purchase Order Management		ipes/Produ ction	Reagents & Supplies 287	Addross Book	Equipmont 57

• B. Two column display



The other two options are used to:

- C. Edit
- D. Delete

As in the previous versions, the Super-Administrator can modify more items for the homepage of all users through  $Admin \rightarrow Other \rightarrow Setup$ .

Please see the next section and more precisely sections 3-1-6, 3-1-9, and 3-1-10.



The general search is available on the top left. Click on the magnifying glass to search. The barcode search is available on the top right corner.

# 3. Setup & Configuration

The LabCollector system comes with a ready-to-use environment (insofar as is possible), but some setup and configurations are needed to adapt it to your lab scheme. Only the super administrator can access the totality of this setup.

#### 3.1 Interface & main LabCollector setup

From the setup page, located at  $Admin \rightarrow Other \rightarrow Setup$ , you can control several definitions and settings for the general functioning and interface of LabCollector.



#### 3.1.1 Login and LDAP Options

Two access modes can be defined here:

- SEMI-OPEN: In this configuration, data browsing are open to anyone who knows the IP or URL address for LabCollector. However, administration tasks are always password protected.
- FULLY LOCKD: In this configuration, any access to LabCollector requires login authentication.

You can read about KB: LabCollector general setup-1. Login.

Authentication and login can also be managed with different options:

₽ Login options	
Password protect Access for browsing purposes ? (administration is always restricted to password)	Yes No     No     Avoid saved user/pass in browser
Block user accounts after 3 failed login attempts ? (super-administrator will be required to unlock accounts)	<ul> <li>Yes No</li> <li>Send an alert when user is blocked</li> </ul>
Password encryption mode ? This change cannot be reversed. All passwords will be converted.	C Legacy  Strong  Strong + Enforce Rules
Session timeout ? Sot a timeout for idle sessions.	Auto-Screen Lock      Auto-logout timer  Timeout (minutes): 30
Enable 2 factor authentication ? Receive a verification code when logging in by email or SMS	<ul> <li>○ Yes ● No</li> <li>Expiry delay: Ask each time ▼ Type of message: Email ▼</li> </ul>
Enable Captcha? Reinforce your account security	○ Yes ● No       Number of characters 4 → Include letters ? □ Yes

- "Password protect Access for browsing purposes" option:
  - YES, you define total login protection
  - NO you indicate a semi-open system in which data browsing and search are unrestricted.

The administration menu is always password protected. You can also force internet browsers to not save login and password information.

- "Block user accounts after 3 failed login attempts" option:
  - YES, if a user fails three times in his password, his account will be blocked and the superadministrator will be required to unlock it. You can also choose to have an alert sent to the super-administrator when a user is blocked.
  - NO: you can enter the password as many time as you want

A user locked appears in red like below in the user list. The super-administrator needs to unlock using the icon on the right.

209	V	visitorGroup4_1	Visitor -	0	No Restriction 🔹	ഫില്
210 🖳	JM	morty	Staff •	?	No Restriction	- A 🛍
211	A	adminGroup1_3	Staff Plus -	0	No Restriction	ഫില്

Below is a screenshot of when the user tries to login after his/her account got blocked.

LabColl	ector Sign In	
Jser name		
Password		
Account s	uspended due to faile Please contact supe	and the second second second
-		
	LOG IN	
Forgot you	LOG IN	

NEW! Once a user account is temporarily blocked after 3 login attempts, it will then get recorded in the

#### audit trail.

• "Password encryption mode" option: You can choose between three password-encryption modes: legacy (old one), SHA-256, or SHA-256 + strong rules. With the last two, all characters are available and a double password confirmation on super-administrator and new users is requested.

Strong rules mean that the password must contain:

- o at least 8 characters
- o at least 1 lowercase
- at least 1 uppercase
- o at least 1 digit
- o at least 1 special character

Since version 5.42, in case of SHA-256 + strong rules, the super-administrator gives a temporary password to the user. During the first login, the new user has to change his password following the strong rules. The same password cannot be used between different user accounts.

The reset of the password is forced every 3 months.

# A Warning

This change cannot be reversed. ALL passwords will be converted.

• "Session timeout" option : this option allows activating an automatic lock option or logout timer and set the number of minutes of idleness before locking occurs.



**NEW!** "Enable 2 factor authentication ?" option: 2FA is an extra layer of security used to make sure that people trying to gain access to an online account are who they say they are. First, a user will enter their username and a password. Then, instead of immediately gaining access, they will be required to provide a verification code.

- You can set the expiry delay so that it asks you for the verification code either each time you try to login, everyday, every week or every month.

- You can also set the message so that you receive it via email or via email + SMS.

#### **Tips/Hints**

Please refer to this section of the KB to see how you can configure your email. Also, if you opted for the SMS option, you will need to set-up your TWILIO account (please, check this section of the KB for more details).

**NEW!** "Enable Captcha ?" option: CAPTCHAs are tools you can use to differentiate between real users and automated users, such as bots. CAPTCHAs provide challenges that are difficult for computers to

perform but relatively easy for humans.

- You can set the number of characters to either 4, 6 or 8 and you can also choose whether or not you want to include letters in the verification code.

If you already have a system of login in your institute, you can probably connect it to LabCollector. Two systems are available: LDAP/AD server or Single Sign-On Authentication.

You can read about **EXE:** how to use AD or LDAP for login authentication.

"LDAP system": If you have a network using LDAP or Active Directory (AD) for users profile
management, you can use it in LabCollector. LabCollector login process will then check login/password
validity on the LDAP or AD server.

It works with standard LDAP protocol and only uses the LDAP server and domain. If you use the LDAP system, you will not have to enter passwords in users' profiles as those are managed on the LDAP/AD server.

You can read more about KB: how to use LDAP & OpenSSL on windows 64bits.

LDAP login authentication ?	Ves lo No				
📩 📩 (User login checked on LDAP/AD server)	O Windows AD O OpenLDAP				
	LDAP server.				
	(Ex: ldap.corp.com or 192168.2.100). For secure LDAP, include ldaps://				
	LDAP domain:				
	(Ex:research.corp.com)				
	Domain separator:      dc=(default)      ou=      first ou= and remaining in dc=				
	or				
	or Custom DN phrase:				
	or O Custom DN phrase:				
	or Custom DN phrase:				
	or Custom DN phrase: Alternative Attributes: LDAP attribute User field				

Users and Staff LDAP/AD can be directly imported automatically: Admin  $\rightarrow$  Users & Staff  $\rightarrow$  Import from LDAP/AD.

• "Single Sign-On Authentication": This allows your lab to use SAML authentication for signing in. SAML provides a single point of authentication, which happens at a secure identity provider. SAML uses secure tokens which are digitally signed and encrypted messages with authentication and authorization data.

These tokens are passed from an identity provider to LabCollector with an established trust relationship. As in the case of LDAP, passwords (except for that of the super administrator) are managed outside of LabCollector.

Single Sign On authentication ? (External authentication with SAMI)	🔿 Yes 💌 No					
(External authentication with SAML)						
	Label:	samitest	(Ex: Corp)			
	Identify Provider (Idp)					
	EntityID:				https://idp.corp.com	
					(Ex: https://idp.corp.com)	
	Single Sign On Service:				test	
	Single Logout Service:				test	
					test	
	Public key:					
	Public key:					
	Certificate					
				test		
	Public key:					
	Public key.					
				test		
	Private Key:					
	involutionay.					
					elf-signed certificate and keys	
	Security	۲	Encrypted	I (HTTP or HTTPS) O Encrypted	d + Signed (needs HTTPS)	
	Algorithm	۲	SHA-1 (def	ault) 🔘 SHA-256		
	Encoding	۲	Uppercas	c (dofault) 🔿 Loworcasc (cho	ock for ADFS - Active ory Federation Services- compatibility)	
	NamelD Format	۲	Unspecific	od (dofault) 🔘 Porsistant		
	Request Authentication Cont	ext 💿	Yes () N	0		
	Force SSL	0	Yos 🖲 N	0		
	Get Service Provider (SP) Meta	data				
				✓ Update		

You can read more about all the options mentioned in the screenshot above, by visiting our  $\bigotimes$  KB: <u>LabCollector General setup v6.11, what's new?</u>

**NEW!** You can set the algorithm to either SHA-1 (which is set by default) or SHA-256.

NEW! You can also choose whether or not you want to force the SSL.

#### A Note

When enabling SSO, you will have to fill out all mandatory fields to be able to save your changes.

You can read more about **EKB**: <u>PHP requirements for SSO in our Knowledge Base</u>.

# A Note

Don't hesitate to contact 🖻 support@agilebio.com to help you with the setup of LDAP or SSO servers.

#### 3.1.1.1 Configuring SSO for LabCollector with JumpCloud

# Step 1: Access JumpCloud

- 1. Navigate to [JumpCloud's website](https://jumpcloud.com/).
- 2. Log in using your administrator account credentials.



# **Step 2: Add New Application**

1. Go to "SSO Applications" from the left menu.

2. Click the "Add New Application" button.



# 2.1. Select Custom Application

- Choose "Custom Application" and click "Next".

२, Search			
		pplications powerful integrations.	
Google Workspace	AWS IAM Identity Center	<mark>‡</mark> slack	XAtlassian Cloud
Enable SSO, sync users and groups from JumpCloud, import users into JumpCloud	Enable SSO, sync users and groups from JumpCloud, import and update users in JumpCloud	Enable SSO, sync users and groups from JumpCloud, import and update users in JumpCloud	Enable SSO, sync users and groups from JumpCloud, impor and update users in JumpCloud
Select	Select	Select	Select
Personio	CROWDSTRIKE	salesforce	Custom Application
Enable SSO, import and update users into JumpCloud	Enable SSO, import users into JumpCloud	Enable SSO, sync users and groups from JumpCloud, import and update users in JumpCloud	Can't find what you're looking for? Connect to any application with a custom integration.
Select	Select	Select	Select

# 2.2. Check Manage Single-Sign-On (SSO)

- Select "Manage Single-Sign-On (SSO)" and choose SAML as the authentication method. - Click "Next".

ß	Select the features you would like to enable Select all features you would like to enable for your application.	
	Need help deciding? Learn More 7	
	Manage Single Sign-On (SSO) Allow users to securely authenticate into this application using JumpCloud.	
	Select One	
	Configure SSO with SAML	
	○ Configure SSO with OIDC	
	Import users from this app (Identity Management)	
	Import new users and user updates into JumpCloud from this application.	0
	Export users to this app (Identity Management)	<b>ACA</b>
	Provision new users and user updates from JumpCloud to this application. JumpCloud will become the authority of the identity. Manage users in JumpCloud and have any changes to identities reflected to this application.	.0.

#### 2.3. Write Display Label

- Enter a display label for the application.
- Click "Save Application".

Display Label *	User Portal Image
My SSO	O Logo
Description	Color Indicator
Add a description that users will see if the application is set to show in user portal.	

# **Step 3: Configure Application**

#### 3.1. Open Application

- Navigate to the SSO Applications section.
- Click on the name of the new SSO application from the list.
- Access the "SSO" tab.



#### 3.2. Fill SP Data

#### 3.2.1. Option 1: Load Metadata File

- Download the metadata XML file from the LabCollector SSO page.
- Upload the downloaded metadata XML file using the "Load metadata" button on JumpCloud.

M	General Info SSO Identity Mana	agement User Groups
SAML2.0	Single Sign-On Configuration	
Single sign-on	To learn more about this configuration, including users, please visit our Knowledge Base JumpCloud Metadata:	restricting access to specific
Integration Status	Export Metadata 🕁 🛛 Copy Meta	adata URL 🗇
<ul> <li>IDP Certificate Valid          <ul> <li>expires 03-01-2029</li> </ul> </li> </ul>	Service Provider Metadata:	
● IDP Private Key Valid -	Upload Metadata	

# 3.2.2. Option 2: Manual Configuration

- Manually fill in the following JumpCloud fields:

- SP Entity ID: Copy the metadata URL (e.g., *https://YOURINSTANCE/login.php?metadata*) from the LabCollector SSO Setup page.
- URL Assertion Consumer Service: Use the ACS URL provided by LabCollector (e.g., *https://YOURINSTANCE/login.php?acs*).

SP Entity ID: 0		
	/login.php?metadata	

# ACS URLs (i)

Enter at least one ACS URL. IdP initiated logins will use the first, or lowest index, ACS URL listed. The ACS URL used for SP initiated logins will depend on the authentication request received.

Index	Default URL *	
0	t/login.php?ac	:s 🗍 🖞

# 3.3. Choose Subject NameID

- Select the user identifier (SAMLSubject's NameID) to be sent. By default, it is email, but you can choose other fields such as username.

SA	MLSubject NameID:	0
_ '	username	
	email	
1	username	ormat: 🕐
	firstname	
	lastname	1L:2.0:nameid-format:persistent
	description	
	alternateEmail	
	employeeIdentifier	
	custom attribute	

# **Step 4: Exchange Information**

- Copy and paste the following information from JumpCloud to the LabCollector SSO page:
  SSO JumpCloud URL (e.g., `https://sso.jumpcloud.com`) to LabCollector EntityID.
  IDP URL to LabCollector Single Sign-On Service.

- IDP URL to LabCollector Single Logout Service.
- Download IDP Certificate from JumpCloud and paste it into the Identity Provider Public Key section.

Ge	neral Info SSO Identity Management Us Default RelayState
SAML2.0	
Single sign-on	Login URL: 💿
Integration Status	
● IDP Certificate Valid	Declare Redirect Endpoint 0
Regenerate certificate	IDP URL:
Download certificate	
- Upload new certific	https://sso.jumpcloud.com/saml2/mysso
Identity Management	Attributes

# Step 5: Create Users in LabCollector

- Create or import user accounts in LabCollector ensuring that the same identifier is used in both systems (as defined in Step 3.3).

By following these steps, you can successfully configure SSO authentication for LabCollector with JumpCloud, enabling users to access LabCollector easily using their JumpCloud credentials.

- User Provisioning: Ensure that user accounts exist in both JumpCloud and LabCollector for seamless SSO authentication.
- Testing and Troubleshooting: Perform thorough testing of the SSO setup and address any issues or errors encountered during the configuration process.

#### 3.1.1.2 Configuring SSO for LabCollector with Azure Active Directory

#### **Step 1: Access Azure Active Directory**

- 1. Navigate to (https://portal.azure.com) and log in to your Azure account.
- 2. Go to the 'Azure Active Directory' section.



# Step 2: Add a New Application

- 1. Click on 'Enterprise applications'.
- 2. Choose 'Create your own application'.

# Step 3: Configure SAML Authentication

- 1. Select 'Integrate another application you don't find in the gallery (Azure Marketplace)'.
- 2. Click on 'Unique Authentication' and choose the 'SAML' method.



# Step 4: Complete Azure Fields

You have two options for filling out the fields:

#### **Option 1: Load Metadata File**

- Download the 'metadata XML file' from the LabCollector SSO page.

- Upload the downloaded metadata XML file using the 'Load metadata file' button provided by Azure.

SSO LabCollector   Authentification basée sur SAML					
~	↑ Charger le fichier de métadonnées Modifie	er le mode d'authentification unique 🛛 🗐 Test cette ap	oplication 🕴 🛜 Des commentaires ?		
👪 Vue d'ensemble					
Plan de déploiement	Configurer l'authentification unique a	vec SAML			
Diagnostiquer et résoudre les problèmes	Diagnostiquer et résoudre les				
Gérer					
Propriétés	Lire le guide de configuration 🖻 pour l'intégration de	SSO LabCollector.			
Propriétaires	Configuration SAML de base		Modifier		
🎝 Rôles et administrateurs	Identificateur (ID d'entité)	Obligatoire			
24 Utilisateurs et groupes	URL de réponse (URL Assertion Consumer So vice)	-			
Authentification unique	URL de connexion	Facultatif			
Approvisionnement	État du relais (facultatif) URL de déconnexion (facultatif)	Facultatif Facultatif			
Proxy d'application		· · · · · · · · · · · · · · · · · · ·			
Libre-service	2 Attributs et revendications				
Attributs de sécurité personnalisés	Remplir les champs requis à l'étape 1				
Sécurité	givenname surname				
👇 Accès conditionnel	emailaddress				
🖧 Autorisations	Identificateur unique de l'utilisateur				
Chiffrement du jeton					
Activité	Certificats SAML				
Journaux de connexion	Certificat de signature de jetons		Ø Modifier		
utilisation et insights	Statut Empreinte numérique				
Journaux d'audit	Expiration E-mail de notification				

#### **Option 2: Manual Configuration** - Fill in the following Azure fields manually:

- Entity ID: Copy the metadata URL (e.g., <u>`https://YOURINSTANCE/login.php?metadata</u>`) from the LabCollector SSO Setup page.

- URL Assertion Consumer Service: Use the ACS URL provided by LabCollector (e.g.,
- `https://YOURINSTANCE/login.php?acs`).

- Connection URL: Enter the LabCollector login page URL (e.g.,

- `<u>https://YOURINSTANCE/login.php</u>`).
- Disconnection Page URL: Provide the logout URL from LabCollector (e.g.,
- `<u>https://YOURINSTANCE/login.php.slo</u>`).

# Step 5: Exchange Information

- Copy and paste the following information from Azure to the *killing LabCollector SSO page*.
- Azure AD Identifier (Entity ID) to LabCollector EntityID.
- Single Sign-On Service URL to LabCollector Single Sign-On Service.
- Single Logout Service URL to LabCollector Single Logout Service.

# Step 6: Download Base 64 Certificate

- Save the configuration in Azure. Download the 'Base 64 certificate' from the 'Certificate SAML' section on the Azure screen.

- Copy the content of the certificate (.cer) and paste it into the 'Public key' input field on the LabCollector SSO Setup page.

# Step 7: Test the Configuration

- Save the settings on the LabCollector SSO Setup page.
- Ensure that a user with a valid email address exists in LabCollector.
- Test logging into LabCollector using an Azure AD account email address.

#### **Additional Considerations**

- Ensure that a user account with an email address as the username exists in LabCollector to be processed by the SSO.

- Adjust LabCollector SSO setup parameters, such as 'Request Authentication Context', if authentication errors occur, like 'PasswordProtectedTransport', during login due to Azure AD group policies.

#### 3.1.2 Proxy, Tasks Scheduler and Email alerts settings

#### • Proxy:

If your internet access is protected by a cache or proxy server, you need to configure this option in LabCollector if you want to benefit from external tools like the RSS feeds reader or the NCBI GenBank importer.

You can read about **CKB**: LabCollector general setup- 2. Proxy, Tasks scheduler & Email alert settings

#### • Tasks Scheduler (for Linux and Windows):

CRON is an automatic task system on Linux used for executing some tasks at specific intervals, without your intervention every time (we use the Windows schtasks engine on Windows servers).

For example, you can create a task to send your email alerts every day at 11:00 pm. If you do that, the CRON manager sends an email every day at 11:00 pm until all the emails will be finished. If you want to send them monthly, you can schedule it.

You can schedule any script making it easy to automatically import data, report, etc. This task system is also used by the DATA LOGGER add-on.

CRON info > tasks hour: only for daily, weekly, and monthly periods.

Weekly: on each Monday. Monthly: on each first day of the month.

You can schedule email sending, custom tasks, and export of your data.

Task Scheduler Settings							
Email							
Edit LabCollector Task	Task Name Task Frequency LC_EMAIL Doily V (*: only for Doily / Weekly / Monthly Period	10 45 O on / () off					
Customs							
Custom Tasks:	Task Name klogger_autoload_ow maintenance_ALS_2 klogger_golp_offline	Script ++ Iologgar_cutolocd_aw.php equipment_maintenance.phpIA2b1WppgbaqNaE Iologger_goip_offine.php	Task Frequency Task MINUTE/1 00:0 MINUTE/30 18:3 DAILY 10:0	00 🔋			
Add New Custom Task	Task Name	Script**		Task Frequer	Minute Y	Task Time 00 00	Add Add This Task
Exports							
Add Export Tosk	Modules Strains & Colls (strains) Export Model No Model (All Fields) Export Torget Email Configure emo	Task Frequency Task Time Daily 00 00 Record Options All Records v all SMTP softings ballow / Export Task					

#### • Email alert settings:

LabCollector has an internal alert system for minimum lot quantities, lot validity, and equipment maintenance. This can help your lab maintain routine tasks on time.

If you want alerts to be sent by email, you need to define email alerts settings here:

- FROM: A valid email from the administrator that is used on the "From" field of the email header.
- TO: All email addresses to which alerts should be sent. One address per line (in addition to persons in charge).
- SMTP: On Windows servers, you need to indicate a valid SMTP server (outgoing email server) that will be used to send the emails. The SMTP server must accept mails from your LabCollector server or sender email address (the one set in the FROM field). Usually, on Linux servers, you don't need to set this if you have a mail server setup (like Sendmail or Qmail) which is usually the case.

The test email button can help you to check that the email settings are valid.

Use the task scheduler to define the frequency of sending emails and to automate this task.

Alert Emails Settings	
From:	
То:	(one racipiont email per line)
Email server:	Custom SMTP Server C Localhost by PHP     Send Test Email
	SMTP:       (enter a valid SMTP server to use for sending emails)         Port:

If your server is configured to use this function, you can also send email from localhost by PHP. You have to set up the PHP.INI section [mail function].

#### 3.1.3 Printers & Labels

LabCollector is capable of printing barcode labels easily ( <sup>QQ</sup> <u>Section 7.6</u>).

Please read our Knowledgebase for **KB**: <u>how to install</u> & **KB**: <u>how to use Dymo printer</u>.

#### You can read about CKB: LabCollector general setup- 3. Printers

Dymo Printers				
Dymo label templates available: A glisiloi Tachhabel (538 kb) Claire 1-000 - Bostz qiub- Label (17 kb) Claire 1-000 - Bostz qiub- Label (17 kb) Claire 1-1000 - Bostz qiub- Label (18 kb) DTCR 1000 NO Blabel (18 kb) (bostant) DTCR 2000 ID Babel (18 kb) (bostant)		Add new template:	Click Upload To Choose File Browse	
##RNAME## 12345 RECOMMENTAM	Template example and tags: You can use any type of barcades from Dymo software like in label example. For Datam dynamic tags as suggested below. Save the file as label template (label) a ##80###6## on a TEXT object name to add record name ##80### on DIT object name to add record ID ##80##COMEDI## on the BARCODE object name for 1D barcade (any type works includ ##80###coMEDI## on ALAGE abject name for 2D barcade (any type works includ ##80##coMEDI## on a TEXT object name data scennent with extra field and options (and ##80##coMEDI## on a TEXT object name adds comment with extra field and options (and ##80##coMEDI## on a TEXT object name adds comment with extra field and options (and ##80##coMEDI## on a TEXT object name adds comment with extra field and options (and ##80##coMEDI## on a TEXT object name adds comment with extra field and options (and ##80##coMEDI## on a TEXT object name adds comment with extra field and options (and ##80##coMEDI## on a TEXT object name adds comment with extra field and options (and ##80##coMEDI## on a TEXT object name adds comment with extra field and options (and ##80##coMEDI## on a TEXT object name adds comment with extra field and options (and ##80##coMEDI## on a TEXT object name adds comment with extra field and options (and ##80##coMEDI## on a TEXT object name adds comment with extra field and options (and ##80##coMEDI##comEDI##comEDI##comment#comment##comment#co	ind upload here. ding QRCode)		

Define printers with EPL and JSCRIPT languages like Zebra, Brady, or CAB and label roll types.

4	Printer Name:	printer A	
$\otimes$	Printer host (domain or IP):	192.168.0.198	Port: 9100
	Printer Resolution:	203 300 dpi	
	Printer Language:	O EPL O JSCRIPT	
	Printer Name:		
Ð	Printer host (domain or IP):		Port: 9100
Ð	· · · · · · · · · · · · · · · · · · ·	● 203 ○ 300 dpi	Port: 9100

To add a label roll type, you have to fill in the form with the required information: roll name and label size (use the size format indicated). If you want to define this roll type as a default you need to check the default box.

You can indicate that a label roll has 2 columns with the W2 parameter (width 2). The positive size will be considered as the left position and negative as the right position. W2 size will add to the W-width of the main label.

You can read more about **EXE:** label network printers and roll types.

#### Labels parameters:



- W: width of the label
- H: height of the label
- LM: left margin on roll
- G: gap separating each label
- W2: width of the second label is for labels is for cryo labels where you can either print the barcode or the code to stick on the tube, as shown below (B – B.1 and B.2).

4	Rol	Name: THT-249-492-15-SC	Default labels
$\otimes$	La	Del size: w:25/H:8/LM:2/G:3/W2-14 Size format: W:m/H:nn/LM:nn/G:nn (W: label Width, H: Label Height, LM: Left Margin, G: vertical Gap, W2: second label/column) Units: mm (no pixels, no inches). Always round to lower	
÷	Roll Name: Label size:		
		Size format: W:nn/H:nn/LM:nn/G:nn (W: label Width, H: Label Height, LM: Left Margin, G: vertical Gap [ <b>optional:</b> W2: second label/column from left (+) or right (-) border]) Units: mm (no pixels, no inches). Always round to lower	
		Examples: CRTH-2000 (1.05x0.5 in) = W:25/H:13/LM:3/G:3 CRTH-3000 (1.5x0.5 in) = W:36/H:13/LM:0/G:3 Brady THT-59-492-2.5-SC (1 x 0.5 in) = W:21/H:12/LM:1/G:3 Brady THT-249-492-1.5-SC (0.375 diam + 1 x 0.375 in) = W:25/H:8/LM:2/G:3/W2:-14 (rectangle label + round label = 2 columns)	
		If no label formats are set, the default is CRTH-3000 (1.5x0.5 in / 38mmx13mm)	
		S Update	

#### **Tips/Hints**

You can set a default label template for your automatic printing, just simply check the box located on the top right corner (as shown in the screenshot above).

You can learn more in our EKB: printing in our Category "Printing".

#### 3.1.4 Rack Scanners

Rack Scanners are used for scanning barcode of the samples for example with the help of Scan Server. You can read about **F**KB: <u>LabCollector general setup-4</u>. Rack Scanners.

You can use the Scan Server utility and connect the Rack scanner to LabCollector.

In LabCollector there is a tool called Batch generator, which helps to add data from rack scanners into LabCollector.



To do this, you need to register Rack scanner with the Batch Generator tool. Please read the Knowledge Base to understand **KB**: how to install Rack scanners and configure Scan Server with LabCollector.



For Sample's batch tools users, a scanner has to be registered.

You have to fill out the form with the required information. To find the IP address of the PC connected to the scanner, launch the command prompt, type *ipconfig/all*. The IP number is listed under IPv4 Address. By default, the port is 5151.

	Scanner Name:	Scan_US	
$\bigotimes$	Scanner IP & Port:	192.168.0.176	Port: 5151
	Scanner Model:	BML SampleScanScanMini 🗸	
	Scanner Name:	(give a name	or ref to this scanner)
÷	Scanner Name: Scanner IP & Port:		or ref to this scanner)

In this section, you can also add plate templates. Upload a CSV file within order: the position in the plate, the sample name, the volume, and the sample type.

📟 Plate Template	05
	TEMPLATE NAME:           ⊕
	Update     Note: CSV Format: POS;sample name;volume;sample_type

#### 3.1.4.1 Scan Server

AgileBio offers you an application called scan server which helps you to connect Rack Scanners and connect them to the LabCollector.



Please read the Knowledgebase to understand **KB**: <u>how to install Rack scanners and configure Scan</u> <u>Server with LabCollector</u>.

#### 3.1.4.2 Ziath Scanner

LabCollector supports Ziath scanner and its software. You need to connect it with Scan server, which will help connect it to LabCollector tool Batch Generator.

Please read the Knowledge Base to understand **KB**: how to install Ziath Scanner and scan the racks.

#### 3.1.4.3 Fluidx Scanner

LabCollector supports FluidX scanner and its software. You need to connect it with Scan server, which will help connect it to LabCollector tool Batch Generator.

Please read the Knowledge Base to understand **EXE**: how to install FluidX Scanner and scan the racks.

#### 3.1.4.4 Micronic Tracxer

LabCollector supports Micronic Tracxer scanner and its software. You need to connect it with Scan server, which will help connect it to LabCollector tool Batch Generator.

Please read the Knowledge Base to understand **KB**: <u>how to install Micronic Tracxer Scanner and scan</u> the racks.

#### 3.1.5 Web services API

A new range of applications based on your LabCollector can be imagined and developed.

Using LabCollector as a back end database, the laboratory can provide remote information in external catalogs, biological resources, etc. Web or mobile tools can be created.



You can read about  $\widehat{\mathbb{C}KB}$ : <u>LabCollector general setup- 5</u>. Webservices. You can also read the  $\widehat{\mathbb{C}KB}$ : an introduction to LabCollector API.

The web-services option will look like below.
	Web Services API				
	Define a new applica	ation:			
-	Application		-		IP Restriction
(1)-	Name: Sample receiv	ing	2 Default of	perator: Super Admin 🗸	
Ĩ-	Modules connected to	o this application:	)		
•	Strains & Cells	Plasmids	Primers	Reagents & Supplies	Samples
	Antibodies	Sequences	Animals	Equipment	Chemical Structures
	Documents	Address Book	Microarrays	Patient Data	Solution
	ADD-ON				
			(5)-	+ Add	

**1.NAME:** Here you can add the name of your application. For example purpose, we have added the name of our add-on which is sample receiving.

2.DEFAULT OPERATOR: Here you can enter the person whom you want to be the operator for this API. If you don't add the operator here, then you will have to add it during each request that you will make through API.

**3.**IP RESTRICTION: This option allows you a layer of security as you can define here which IP (internet protocol) addresses are allowed to work on the API you are defining. Remember that if you choose "yes" then the box to enter IP address will appear only after you save your setting.

4.MODULES CONNECTED TO THIS APPLICATION: There are 12 by default modules present in LabCollector. Apart from this, you can also create new custom add-ons as per your requirements. All the defaults and custom modules and the add-ons will be present here and you can choose which modules you want to interact with the API.

5.ADD: once you have defined your settings you can click on add and you API will look like below.

For more information please refer to this C LabCollector page and C manual (or e contact@agilebio.com a representative from AgileBio).

3.1.6 Lab name, logo, modules name, google translation

In this section, you can change the Lab name and logo.

Lab Nam	ne:	Agilebio demo		
1.1.1		- Burger and the		
Lab Logo	0:	Change the lab logo image:		
		Click Upload To Choose File Browse		
		(Valid image formats: PNG,GIF, JPG or JPEG.)		
		Use this to customize the logo on the header of LabCollector.		
		CLEAR logotype? (back to LabCollector default)		
Primary/	/Menu Color:	Standard		
		Custom		
		LabCollector Orange (Default)		
Secondo	ary Login Color:	Standard		
		Custom		
		LabCollector Dark Blue (Default) -		
Login Co	omers:	Normal 👻		
Value Fo	ocus Icons:			
	inced Preferences			
	Multilanguage:	Disabling multilanguage mode removes the language selector on top of pages.		
	language:	en 🗸		
	interface translation:	Use with care as it may break interface features. (Allows interface translation to any language. May not work on your firewall.)		
CSV Expo	ort in UTF-8:	Required to export special characters. (May not work on certain MS-Excel versions and MacOS versions)		
		Default Format (Y-m-d)		
Date For	rmat:	Custom Format		
		Format d-m-Y V Separator - V Example: 01-12-2022		
Time Zon	ne	(UTC+01:00) Europe/Paris		
Certified	d timestamp	Fill in the additional information 0		
🕐 Grava				
		(Requires the execution of an external URL)		
	ar Webservice:	(Maquiros the execution or an external link)		
	base Optimization			
MySQL IN		Done		
💭 Built-i	-in Modules Preferences			
Define M	Adule preferences here			
	rag each line to sort the modules automatically			Available
	Modules	Alternate Name		
				Home Page Display
0	Samples		₿	Show O Hide
	Samples Reagents & Supplies			
1	Reagents & Supplies			<ul> <li>Show Hide</li> <li>Show Hide</li> </ul>
1	Reagents & Supplies Animals			<ul> <li>Show Hide</li> <li>Show Hide</li> <li>Show Hide</li> <li>Show Hide</li> </ul>
1 2 3	Reagents & Supplies Animals Equipment			<ul> <li>show </li> <li>Hide</li> </ul>
1 2 3	Reagents & Supplies Animals			<ul> <li>Show Hide</li> <li>Show Hide</li> <li>Show Hide</li> <li>Show Hide</li> </ul>
1 2 3 4	Reagents & Supplies Animals Equipment			<ul> <li>show </li> <li>Hide</li> </ul>
1 2 3 4 5	Reagents & Supplies Animals Equipment Chemical Structures Sequences			Show Hide
1 2 3 4 5 6	Reagents & Supplies Animals Equipment Chemical Structures Sequences Documents		8	Show Hide
1 2 3 4 5 6	Reagents & Supplies Animals Equipment Chemical Structures Sequences			Show Hide
1 2 3 4 5 6 7	Reagents & Supplies Animals Equipment Chemical Structures Sequences Documents		8	Show Hide
1 2 3 4 5 6 7 8	Reagents & Supplies Animals Equipment Chemical Structures Sequences Documents Address Book			
1 2 3 4 5 6 7 8 9	Reagents & Supplies Animals Equipment Chemical Structures Sequences Documents Address Book Antibodies Microarrays			(b) Show         Hide           (c) Show         Hide
1 2 3 4 5 6 7 8 9 9	Reagents & Supplies Animals Equipment Chemical Structures Sequences Documents Address Book Antibodies Microarrays Primers			(b) Show         Hide           (c) Show         Hide
1 2 3 4 5 6 7 8 9	Reagents & Supplies Animals Equipment Chemical Structures Sequences Documents Address Book Antibodies Microarrays Primers			(b) Show         Hide           (c) Show         Hide
1 2 3 4 5 6 7 8 9 9	Reagents & Supplies Animals Equipment Chemical Structures Sequences Documents Address Book Antibodies Microarrays Primers Plasmids			(b) Show         Hide           (c) Show         Hide
1 2 3 4 5 6 7 8 9 00 10 11	Reagents & Supplies Animals Equipment Chemical Structures Sequences Documents Address Book Antibadies Antibadies Microarrays Primers Plasmids Strains & Cells			(b)         Show         Hide
1 2 3 4 5 6 7 8 9 10 10 11 12 13	Reagents & Supplies Animals Equipment Chemical Structures Sequences Documents Address Book Antibodies Microarroys Primers Plasmids Strains & Cells prociente	Image: Control of the second secon		(b) Show         Hide           (c) Show         Hide
1 2 3 4 5 6 7 8 9 00 10 11	Reagents & Supplies Animals Equipment Chemical Structures Sequences Documents Address Book Antibodies Microarroys Primers Plasmids Strains & Cells placiente			(b)         Show         Hide           (c)         Show         Hide
1 2 3 4 5 6 7 8 9 10 10 11 12 13 14	Reagents & Supplies       Animals       Equipment       Chemical Structures       Sequences       Documents       Address Book       Antibadies       Microarrays       Primers       Plasmids       Strains & Cells       pacteria			(b) Show         Hide           (c) Show         Hide
1 2 3 4 5 5 6 6 7 7 8 8 9 10 11 12 12 13 13 14	Reagents & Supplies           Animals           Equipment           Chemical Structures           Documents           Address Book           Antibadies           Microarrays           Primars           Strains & Colls           paciente           Bacteria	Image: Control of the second secon		(b) Show         Hide           (c) Show         Hide
1 2 3 4 5 5 6 6 7 7 8 8 9 10 11 12 12 13 13 14	Reagents & Supplies       Animals       Equipment       Chemical Structures       Sequences       Documents       Address Book       Antibadies       Microarrays       Primers       Plasmids       Strains & Cells       pacteria			(b) Show         Hide           (c) Show         Hide
1 2 3 4 5 6 6 7 8 9 9 00 11 12 13 13 14	Reagents & Supplies       Animals       Equipment       Chemical Structures       Sequences       Documents       Address Book       Antibactiles       Micrearrays       Primers       Strains & Cells       Bacteria       Bacteria	Image: Control of the second secon		(b)         Show         Hide           (c)         Show         Hide
1 2 3 4 5 6 7 8 9 10 11 12 13 14 14 15 16 17 18 19 10 10 11 12 13 14 14 15 16 16 16 16 16 16 16 16 16 16	Reagents & Supplies       Animals       Equipment       Chemical Structures       Sequences       Documents       Address Book       Antibaciles       Micrearrays       Pimens       Strains & Cells       paciente       Bactoria	Image: Control of the second secon		(b)         Show         Hide           (c)         Show         Hide
1 2 3 4 4 5 6 7 8 9 10 10 11 12 13 14 14 15 Foresteen and the second	Reagents & Supplies       Animals       Equipment       Chemical Structures       Sequences       Documents       Address Book       Athibadies       Microarrays       Primors       Plasmids       Strains & Colls       paciente       sectoria	Image: Second secon		(b)         Show         Hide           (c)         Show         Hide
1 2 3 4 4 5 6 7 8 9 10 10 11 12 13 14 14 15 Foresteen and the second	Reagents & Supplies       Animals       Equipment       Chemical Structures       Sequences       Documents       Address Book       Antibaciles       Micrearrays       Pimens       Strains & Cells       paciente       Bactoria	Image: Second secon		(b)         Show         Hide           (c)         Show         Hide
1 2 3 4 5 6 6 7 7 8 9 10 10 11 12 13 13 14 12 13 14 14 10 Define numerical for the formation of the formati	Reagents & Supplies       Animals       Equipment       Chemical Structures       Sequences       Documents       Address Book       Athibadies       Microarrays       Primors       Plasmids       Strains & Colls       paciente       sectoria	Image: Second secon		(b)         Show         Hide           (c)         Show         Hide
1 2 3 4 5 6 7 8 9 10 10 11 12 13 14 14 16 16 16 16 16 16 16 16 16 16	Reagents & Supplies       Animals       Equipment       Chemical Structures       Sequences       Documents       Address Book       Antibaciles       Micrearrays       Primers       Pasmids       Strains & Cells       Bactoria       Bactoria       e messages panel from home ide ReakSconner/Batch tools			(b)         Show         Hide           (c)         Show         Hide
1 2 3 4 5 6 7 8 9 10 10 11 12 13 14 14 16 16 16 16 16 16 16 16 16 16	Reagents & Supplies       Animals       Equipment       Chemical Structures       Sequences       Documents       Address Book       Antibodies       Antibodies       Microarrays       Primers       Primers       Problem       Strains & Cells       Boctoria       ts por page       webers of results to show per page       Bockers	Image: Second secon		(b) Show         Hide           (c) Show         Hide
1 1 2 3 3 4 5 6 7 8 9 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Reagents & Supplies       Animals       Equipment       Chemical Structures       Sequences       Documents       Address Book       Antibadies       Micrearrays       Primors       Plasmids       Strains & Cells       paciente       paciente       e messages panel from home ide RockScanner/Batch tools       ctiling remote connector app at time file editing $\bigcirc$ No $\textcircledo$ Yas			(b) Show         Hide           (c) Show         Hide
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 14 15 16 17 18 19 10 11 12 13 14 15 16 16 16 16 16 16 16 16 16 16	Reagents & Supplies       Animals       Equipment       Chemical Structures       Sequences       Documents       Address Book       Antibaciles       Micrearrays       Primers       Pasmids       Strains & Cells       Bactoria       Bactoria       e messages panel from home ide RackSconner/Batch tools			(b) Show         Hide           (c) Show         Hide

All the above points are explained in the **KB**: <u>LabCollector general setup- 6</u>. General settings, logo, modules names, etc.

## <u>A.Language:</u>

You also have access to *language options* in option A in above image. Each user will have the possibility to select his language by default and from time to time (see user selection 2.5). The super-administrator can select a general default language and turn off the time-to-time selector.

Language options are also possible as the *Google interface translation* option for a multilingual interface to use LabCollector with a selected language. To do that, just tick the box "Google interface translation". The LabCollector interface will be translated by Google.

### • A.CSV Export in UTF-8:

If you use special characters in your data, tick the box CSV Export in UTF-8 to have the possibility to export them in CSV.

### • <u>A.Date format & Timezone:</u>

**NEW!** Super-administrator can now define a custom date format. By default, the date format used in LabCollector is the SQL format so Y-m-d (Year-month-day). Now, you can select the separator between - and /, and one of the custom formats as below:

d-m-Y	Example: 28-0	1-2020	
m-d-Y	Example: 01-2	8-2020	
d-M-Y	Example: 28-J	an-2020	
		Date Format:	Default Format (Y-m-d) Custom Format Format d-M-Y  Separator - V Example: 28-Jan-2020

NEW! Now you can also adjust the time zone according to your region.

Time Zone	(UTC+03:00) Africa/Addis_Ababa	~	
	(		

**NEW!** LabCollector also provide an easy method to apply RFC 3161 trusted timestamps to time-sensitive transactions through independently verified and auditable date and UTC (Coordinated Universal Time) sources.

Time stamping can be used to independently and irrefutably prove the time of a transaction, the time a document was signed and when it was archived.

### **Tips/Hints**

You can change the color of your instance's header by selecting the preferred primary/menu color, and also that of the login page by selecting the preferred secondary login color.

### • B. Gravatar:

**NEW!** Now you can access the gravatar webservice as well in LabCollector to personalize your login image. If you don't want the gravatar to be used you can leave the box unchecked.

() Gravatar		
Gravatar Webservice:	On (Requires the execution of an external URL)	?

### • <u>C. Database optimization:</u>

To optimize search and filter results in your database if you have a lot of data, check the box Yes, create Indexes to optimize searches. This option is automatically selected for new installations.

### • <u>D. Built-in module preferences:</u>

#### 1. LabCollector

Hodules Tools	다. 아아 Preferences Admin	LabCollector		😣 🖉 🗤 Help Alerts
C	Built-in Modules Preferences			
De	efine Module preferences here			
	TE Drag each line to sort the modules			Available Modules: 24
	# Modules	Alternate Name		Home Page Display
1 🦘	0 Strains & Cells	Cells 2	8	Show O Hide 3
	1 Primors			Show      Hide
	2 Reagents & Supplies		8	(i) Show () Hide
	3 Plasmids		8	() Show () Hide
	4 Samples		8	() Show () Hide
	5 Antibodies		8	() Show () Hide
	8 Sequences		8	() Show () Hide
	7 Animals		9	(a) Show () Hide
	8 Equipment		9	(a) Show () Hide
	9 Chemical Structures		8	(a) Show () Hide
	10 Documents		8	(a) Show () Hide
	11 Microarrays		8	Show      Hide
	12 Address Book		θ	(a) Show () Hide
	13 BloodBank		8	() Show () Hide

You can also organize and rename the module icons on the default home page. Please, refer to the numbers indicated in the screenshot above:

**1:** You can drag up or down any module and change it's order of appearance on your main LabCollector page.

2: You can change your module's name by typing an alternate one.

**3**: You can decide whether you want to show or hide a certain module on the home page. When you hide a module, you obtain one credit to create a custom module (see  $\square$  section 5.4).

### • E. Results per page:

The number of search results shown per page can be changed as well. **NEW!** By default, the summary line truncate values that are too large (Display A). If you check the box "**Column text wrap**", the values will be displayed entirely on double lines (Display B).

- F	E Results per page						
0	Define number of results to show pe	r page	100		Column text	wra	p
4 results	s found   @ Show/Hide all records on page	Owner		0		0	
ט רב	♦ Name SaoS-2	• • • • • • • • •	a Nayana	Genotype			<mark>ganism</mark> nan
⊐ı ⊐2	(ATCC® HTB-26™) MDA-MB-231	Esber No	,	The cell line	is aneuploid female (m		
3	(ATCC® HTB-133™) T-47D	Esber No	thalie	This is a hyp	ootriploid human cell lin	Hur	nan
34	MG 63	Tusamde	a Nayana			Hur	nan
5	hMSC	Tusamde	a Nayana			Hur	man
	Display A	, without	the column text v	vrap opti	on.		
4 rocult	s found   ⊕ Show/Hide all records on page						
4 TOSUIT	Name	🌲 Owne	r	Genoty	90'	۵	Organisr
ID	SaoS-2	Tusam	nda Nayana				Human
D וב							
-	(ATCC® HTB-26™) MDA-MB-231	Esber	Nathalie	dal num ith chroi riploid re	line is aneuploid female aber = 64, range = 52 to 64 mosome counts in the ne ange. Normal chromosor N15 were absent. Eleven s	3), w ear-t nes	Human

Display B, with the column text wrap option.

### • F. Home Panels:

The super-administrator can choose to remove the messages and the RSS panels from the homepage by checking the boxes below and the Rack scanner/batch tools also.

û Home panels	
Hide messages panel from home	🗌 እ Hide RSS panel from home
🗌 🥪 Hide RackScanner/Batch tools	

#### • G. File editing remote connector app:

**NEW!** The File Connector application is a new Windows application to allow the user to modify the documents downloaded in LabCollector without uploading them and save them again.

😤 File editing remote connector app		
Enable real time file editing 🔘 No 🔘 Yes	Link to webservice ELNdocsender	
Port 5050		

Here, you have access to the setup from LabCollector. If you enable this application, you need to link it to a web service (see section 3.1.5) and select the port. By default, the port is 5050 and can be changed in the settings of the application.

All the above points are explained in the  $\widehat{\mathbb{C}KB}$ : <u>How to download & install File Connector</u>. You can read the  $\widehat{\mathbb{C}KB}$ : <u>how to use the File Connector software</u>.

#### • H. Import Storage Verification:

**NEW!** The last option on this page of setup is linked to the storage import. Using the import tool under Admin > Data > Import, you can in modules linked to the storage system import the main locations of the record. By checking this box, the system will check if the position in the box is already used. It is an option because it requests more resources than a simple import.

Import Storage Verification
 Verify occupied positions when importing a record's primary storage

Once you are done, don't forget to "Update" the settings, for them to apply.

## 3.1.7 Export and Print Setup & Models

This option is also available to the administrator level through the Preferences menu.

Models can be created to export and print data from any module. Use these models to export or print your result search in each module. This allows you to quickly create exports for frequently required reports or information.

Expor	t Setup & Models			Purchase Order Export Models	Print Models	Export Models
	1	Name	Export Format	HTML 🔽 2		6 🛃
	Strains & Cells Plasmids	Module Fields		Export Fields		
	Primers	t⊕ ID	Add All			
	Reagents & Supplies	↔ Name	4			
	Samples	↔ Optional Reference				
3	Antibodies Sequences	$\Leftrightarrow$ Optional Unique Code	Remove All			
-	Animals	↔ Comments				
	Equipment	↔ Genotype				
	Chemical Structures	↔ Organism	Update	5		
	Documents	$\oplus$ Related to Organism				
	Address Book	↔ Owner				
		↔ Creation Date				

You can read more about export in the **Export** print models

A few steps are necessary to create a model of export:

1. Give a name

- 2. Choose the file format
- 3. Select the module where you want to create the export model
- 4. Choose the fields with the button Add All, the arrow, or by dragging and dropping them in the Export fields column on the right.
- 5. Save your model "UPDATE"

# 3.1.8 Upload / Add Add-ons

Add-ons are complementary modules in LabCollector.

Please see  $\square$  <u>section 1.4</u> for more information.

A Note As a reminder, it is a best practice to back up data before updating or installing new add-ons.

You can download the add-ons that you need on the C LabCollector website. Then, upload the zip file on this page. Navigate into the add-on from the LabCollector home page to complete the installation. Refer to the manual of the add-on for additional details.

Read more about the add-ons in  $\blacksquare$  section 11.

# 🔭 Tips / Hints

To install or update ELN add-on, just uncompress the zip folder under *extra\_modules* folder. Please see the add-on manual.

# A Note

Please note that the maximum upload size for Add-ons zip files is 150Mb, you can upload the file corresponding to the Add-on you want to integrate into LabCollector by going to Admin  $\rightarrow$ Setup  $\rightarrow$ Upload Add-ons (as shown in the screenshot below).

Q Search for			Barcode.
BB /P [] 101 Modules Toole Preferences Admin	Lab	ollector	🛞 ঐ ໜ
LabCollector Setup (Manage Software Parameters)			
	🖉 Setup Categories		
	Cogin options     Prox, Tosks Scheduler and Imail     Printers and labels     Rock Sconners     Web Services AP     Integrations     Access Permissions	General settings, logo, modules names, etc.   Support Setup & Models   Guide Second Settings (Second Second Seco	
መ Uplood Add Add~ons			
Maximum Upload Size:150M			
Upload Add-on ZIP: Click Upload To Choose File	Browse		
	-		
	4	, upload	
v. 611 Licensed to ogliebio	Lab	ollector	

**NEW!**: You can now receive alerts from add-ons directly into your LabCollector alerts menu.

## 3.1.9 Home page external links

External links positions on the home page can be defined in this section. They are like bookmarks for which you can define an icon. It can be useful for intranet or websites that your lab commonly uses.

	epage Links Setur external module ico		red on home page. Drag & Drop to change display order.	
$( \pm )$	Add New Link			
	Name:			
	Link:			(include http://)
	Icon:	<b>1</b>	Use custom icon image: Click Upload To Choose File Browse	
		0₩,	(Image format: PNG, GIF or JPEG. max size: 100x100px.)	

You can also create favorite site links through Tools  $\rightarrow$  Lab Bookmarks. See  $\square$  chapter 10.10.

## 3.1.10 Newsfeeds and Twitter

*"RSS feeds"* are now widely used on internet Portals. They are URLs pointing to XML-based content. Generally used for news, they allow insertion of contents on third party websites. With LabCollector you can keep informed of events relevant to your lab directly from the LabCollector home page.

For example, scientific journals can provide current contents headlines or you can list news or equipment promotions from your suppliers.

ລັ News Feed						
Default fe	ed: LabCollector		+Add			
	RSS URL / Twitter account	Number of headers				
	http://feeds.nature.com/nature/rss/current	5	m			
ш	(include http://)	(leave empty or put 0 for RSS default)				
	Update					

By default, we publish LabCollector's news topics (to keep you informed on our news and suggestions). If you define additional RSS entries, you can change the default RSS feed.

Click on the +Add button on the right and fill in the form. You can also link your Twitter account.



You may need to configure proxy settings if your network is protected by a firewall/proxy server. Contact your local network admin.

# 3.1.11 Module Search & Form Options

A - Module Search & Form Options	
Multi Line Search Input:	
Strict Search:	(Strict search on MySQL content with HTML tags)
Insensitive Custom Chars:	
B G Module Initial Search Options	
Initial Search:	(Display results when entering a module even if there is no search history)
Initial Search Default Sort:	ASC -
C - Module Form Share Options	
Default Share Type:	Per Module -
Default Share:	No Default Groups - Edit default options per module: Record Options

## A: Module Search & Form Options

• LabCollector offers the option to input multiple lines into the search bar, a small icon will appear in the bottom right corner of the search bar once this option is activated, which allows you to configure its size.

		LabCollector	
1	Searc	h by: Keyword Process ID ID	
Operator:	AND V Status: Active	<ul> <li>✓ Sort results by: Id</li> <li>Expand search options ▼</li> </ul>	✓ ASC ✓ Strict search

- You can choose to activate the strict search option, which allows you to perform a strict search on MySQL content with HTML tags.
- You can set your search bar to be insensitive to certain characters (which are displayed in the screenshot below).

$\Box$	- (Dash)
	* (Asterisk)
	(Vertical Bar)
	/ (Forward Slash)
	\ (Backslash)

### **B: Module Initial Search Options**

You can choose whether or not you want to display results when first accessing a module even if there is no search history, you can also set the default sort to ASC (ascending) or DESC (descending).

## C: Module Form Share Options

Here you can set your default share type to be either Per Module or Global.

- If you choose the Per Module option, you will have to access to the Record Options page (by following these steps: *Admin -> Other -> Record Options*), and select the groups with which you want to share the module form for each individual module (as shown in the screenshot below).

dules Tools Pr	다. 아아 eferences Admin			Lab	ollector			Help Alerts
	Options Options							
Records refere	nces/ID Options							
Module	ID setting	ZEROFILL	FIELD SIZE *	Force Waiting	Block Duplicates	Compliance	Automatic Naming	Form Default Share
Cells	Full-Automatic ID     Semi-Automatic ID (editable)	🔿 Yes 🖲 No	INT(9)				none v	No Default Groups -
Primers	Full-Automatic ID     Semi-Automatic ID (editable)	🔿 Yes 🖲 No	INT(9)				none 🗸	No Default Groups 🝷
Plasmids	<ul> <li>Full-Automatic ID</li> <li>Semi-Automatic ID (editable)</li> </ul>	O Yes  No	INT(9)				none 🗸 -	No Default Groups 👻
Samples	Full-Automatic ID     Semi-Automatic ID (editable)	🔿 Yes 🖲 No	INT(9)				none 👻	No Default Groups 👻
Antibodies	Full-Automatic ID     Semi-Automatic ID (editable)	• Yes O No	INT(9)				none 🗸 -	No Default Groups -

– And if you choose the Global option, the Default share drop down menu will be accessible and you can then select the group(s) with which you want to share the module form. In this case, the selected group(s) will automatically appear in the share options of the module form, and this will be valid for all modules without exception (as shown in the screenshot below).

Q Search for			Barcode
H C C C C C C C C C C C C C C C C C C C			Holp Alerts
		The selected groups will share Options • share	Cancel 🚧 Save & Add 🖬 Save
💷 Record Data			
🖥 Storage Data	ID	7921	
	Project Code	Autocomplete Field	
	Name *		
	Optional Reference		
	Optional Unique Code	#	
	Comments	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \underline{U}  \underbrace{S}  X_a  X^a \mid \underline{I}_X \mid \\ \underline{A}^-  \underbrace{M}^- \mid \underbrace{?}  \end{aligned} $

# 3.1.12 Access Permissions

Configure the permissions of staff level users to access d	iesignated areas.
Memorized Items (Worklists Only)	
2⊖ Staff+ Access	
Configure the permissions of staff+ level users to access	designated areas.
Audit Trail	-
Admin Access to Administration Setup	
Configure the permissions of admin level users to access	s Admin > Setup.
Export Setup & Models	Printers and labels
Rack Scanners	Home page External links
Web Services API	News feeds
Integrations	Module Search & Form Options
28 Admin Access to Other Administration Areas	
Configure the permissions of admin level users to access	; designated administration areas.
Custom Modules	Default Fields
Custorn Modules	
Custom Holdies	Fields Order
	Fields Order
Custom Fields Preferences Menu	Fields Order
Custom Fields  Preferences Menu  Value Custom Fields  Value Custom Fields  Custom	Tields Order
Custom Fields  Preferences Menu  User Level Allowed to Delete Records	
Custom Fields  Custom Fields  Preferences Menu  Solution  Configure the user levels that are allowed to delete records	
Custom Fields  Custom Fields  Preferences Menu  State Configure the user levels that are allowed to delete recor  User, Staff, Staff+, Admin	

A: The access to Memorized Items (Worklists Only) can now be opened to Staff level users.

B: The access to the Audit Trail can now be opened to Staff+ level users, in addition to the superadministrator and administrators.

C: The super administrator can authorize the access for admin level users to the setup menu, and also choose the exact tab that the admin level users can access (integrations page, Printers & labels page, ...etc.).

D: The super administrator can also restrict the access for admin level users to other administration areas, such as : Custom Modules, Fields Order, ...etc.

E: The super administrator have the ability to configure the user levels that are allowed to delete records.

Note

Even with permission to delete, non-admin users can only delete their own records.

## 3.1.13 Integrations

LabCollector offers the possibility to integrate third party apps diretcly into your instance, these apps can be set-up and configured to meet your needs in terms of improving your communication with other work colleagues, enhancing your search ability, ...etc.

SMS			
🖾 Twilio			
	Account SID:		
	Account Token:		
🙂 twilio			
	Phone number:	Format looks good!	
		🖨 Save 📝 Test 🗑 Clean	
⊠ Plivo			
	Auth SID:		
l plivo	Auth Token:		
	Phone number:		
		🖬 Save 🛛 🗐 Clean	
Communication			
# Slack			
	Webhook url:		
	Want to show Slack channel on the	() Yes () No	
<mark>‡</mark> slack	homepage?		
	App token:		
	Conversation ID:		
		🗟 Save 🚽 Test 🔋 Clean	
Fax		🖬 Save <table-cell-columns> 📲 Tost 🛛 🗑 Clean</table-cell-columns>	
	Username:	Cloan	
f WestFax	Username: Password:		
f WestFax	Password:	© Connoct	
f WestFax	Password: Product ID:		
f WestFax	Password: Product ID:	© (optional)	
MestFax	Password: Product ID:	© (optional)	
WestFax WestFax	Password: Product ID:	© (optional)	
MestFax	Password: Product ID: Feedback Email:	© (optional)	
WestFax WestFax	Password: Product ID: Feedback Email:	© (optional)	
WestFax	Password: Product ID: Feedback Email:	Connect Copional Copional	
WestFax WestFax	Password: Product ID: Feedback Email:	Connect Copional Copional	
WestFax WestFax	Password: Product ID: Feedback Email: API key:	Connoct Coptional Coptional Coptional	
WestFax	Password: Product ID: Feedback Email: API key: You have already down	Iladed Advanced Search add-on !	
WestFax WestFax	Password: Product ID: Feedback Email: API key: You have already down	Connoct Coptional Coptional Coptional	

A: You can set-up apps that have the ability to send SMS alerts and messages, such as : Twilio and Plivo.

B: You can also configure communication apps, such as : Slack, and choose whether or not you want to show the channels on the LabCollector's homepage.

\*Please, take a look into this KB for more details on how to receive LabCollector notifications using Slack.

C: You can set Fax softwares, such as : West Fax and/or mFax.

D: You also have the possibility to add an advanced search add-on and integrate it directly into LabCollector, such as : Elastic Cloud, AWS or Google Cloud.

\*Please, take a look into this KB for more details about the Advanced Search Manager.

## 3.1.13.1 Artificial Intelligence (AI)

In our continuous quest to improve your lab experience, <u>LabCollector</u> is thrilled to introduce the integration of <u>OpenAI</u>, a pioneer in artificial intelligence.

### Note

Please note that this feature is only available starting from LabCollector v6.21, checkout our <u>blog post</u> to read about all the other exciting features included in this version.

If you want to update your current version, read the following knowledge base on <u>how to upgrade your</u> <u>LabCollector</u>.

### Activating the Power of AI in LabCollector

• First of all, head to the Admin section, then find and click on Setup, finally explore the Integration tab, under which you can find the dedicated section for Artificial Intelligence (as shown in the screenshot below).

He P C W Modules Tools Preferences Admin	La	bCollector	🛞 🖉 ww Help Alerts
LabCollector Setup (N Admin/LabCollector Setup (Manage So	anage Software Parameters) ware Parameters)		
	28 Setup Categories		
	Login options     Proy. Tasks Scheduler and Email     Printers and labels     Rock Schniers     Web Services API     Minterprotions     Access Permissions	General settings, loga, modules names, etc.  Fig. Export Setup & Models  Utilized Addr-ons:  O Home page External links.  News feeds  Module Search & Form Options.	
View All	Artificial Intelligence		
SMS	OpenAl		
Communication			
Fax	OpenAl apikoy: ak	-PH	
Scannors		Save Clean	
Elasticsoarch			
Scientific tools	OpenAl using requirements		
Artificial Intelligence	Before using it for the first time, you need to generate an APr key and input it on t     It can be use for all Open AI functionality (dt. Speech-to-text, etc.)     To use it fram ELN voice recording you need to enable his use into ELN voice record     If you have enough OpenAI credit, the transcript of you record will display some	rding management page.	0

Once you click on the Artificial Intelligence tab, you'll encounter different AI options, each offering unique functionalities. Let's break down the options and the steps to activate them:

## 1) OpenAI:

- Generate API Key: If you plan to use OpenAI, you'll need an API key. This key is like a secret code that allows LabCollector to connect to your OpenAI account. You can generate this key from your OpenAI account settings.
- Allocate OpenAl Credit: OpenAl operates on a credit system. To use OpenAl functionalities within LabCollector, you need to allocate a certain amount of credit to your OpenAl account.
- Input the generated API key in the corresponding tab, click on "save" and turn on the AI by switching ON the button located to the right.

### 2) Speech-to-text:

- For Speech-to-Text, LabCollector allows you to choose a specific transcript model. Think of this as selecting the 'voice' that will be transcribing your spoken words.
- Specify the speech-to-text processor whether None or OpenAI. This determines the underlying technology used for the transcription process.
- You will need to activate an AI integration account (OpenAI) before using this option.

### 3) Text Enhancer:

- For the Text Enhancer, you again choose a specific transcript model, determining the 'style' or 'intelligence' of the enhancement, such as "gpt-4".
- Similar to Speech-to-Text, specify the processor and activate an AI integration account before using the Text Enhancer with OpenAI.

1. LabCollector

Specific To statusing requirements	rtificial Intelligence		
Construction of the first time, you need to generate on API key and input it on this page. You need to allocate to your OpenAI account a credit. E extends using it for the first time, you need to generate on API key and input it on this page. You need to allocate to your OpenAI account a credit. E extends use for all dopen AI functionality (or SpaceF-to-tot et al.) E Speech-to-Text E Speech-to-Text E Sect the Speech-to-text processor: I ranscript model to use: I ranscrip	@ OpenAl		
<ul> <li>every using it for the first time, you now to generate an AP key and input it on this page. You need to allocate to your OpenAI account a credit.</li> <li>is to use it from EAN voice readering 'you need to anable it incost to voice recording management page.</li> <li>if you have enough OpenAI accedit it does not be its page. You need to allocate to your OpenAI account a credit.</li> <li>if you have enough OpenAI accedit it does not be its page. You need to allocate to your OpenAI accedit a to anable its page.</li> <li>if you have enough OpenAI accedit it does not be its page.</li> <li>if you have enough OpenAI accedit it does not be its page.</li> <li>if you have enough OpenAI accedit its page.</li> <li>if you have enough openAI accedit it does not be its page.</li> <li>if you have enough openAI accedit its page.</li> <li>if you have enough openAI accedit its page.</li> <li>if you have enough openAI accedit (its OpenAI).</li> <li>if you have enough openAI accedit (its OpenAI).</li> </ul>	\$	OpenAl apikey:	
Image: Image	Before using it for the first time, you need     It can be use for all Open AI functionality     To use it from ELN voice recording, you need	(ie: Speech-to-text, etc.) sed to enable his use into ELN voice recording manageme	
Select the Speech-to-text processor:     None @ OpenAl     Speech-To-Text using requirements   Select the Speech-to-text processor:   Select the Count (in: OpenA).   Text Enhancer   Text Enhancer     Select the Text enhancer processor:     Select the Text enhancer procese the Text enhancer procese the Text enhancer p	🕮 Speech-to-Text		
Speech-To-Text using requirements   • Before using it you need to enable an Al integration Account (is: OpenAl).	A	Transcript model to use:	whispor-1
	0	Select the Speech-to-text processor:	
Transcript model to use:          Image: Transcript model to use:       gpt-4         Select the Text enhancer processor:       Image: OpenAl         Image: Text Enhancer using requirements       Image: OpenAl		integration Account (ie: OpenAl).	
Select the Text enhancer processor:   Image: Solution of the Text enhancer processor:     Image: Solution of text	Text Enhancer		
Text Enhancer using requirements	•	Transcript model to use:	gpt-4
	<b>V</b>	Select the Text enhancer processor:	
Before using it you need to enable an Al integration Account (ic: OpenAl).	Text Enhancer using requirements		
	Before using it you need to enable an Al in	integration Account (ie: OpenAl).	

Once activated, an AI symbol will appear next to the voice recording icon, which you will find inside ELN, LSM and within your records' comments, simply start speaking into the mic and the AI will handle the rest, your spoken observations will turn into written notes with high accuracy, which you can then copy/paste, modify, or save them exactly as they are.

ID	102051
Project Code	Autocomplete Field
Name *	Al Test
Optional Reference	
Optional Unique Code	#
Comments • REC	X D D D A → PF - ∞ R P D D D X Q D Source V E E E E Styles - Format - Font - Size

## 3.2 Users

Users are persons that have a hierarchy in the lab or institute. The hierarchy can start from the Supervisor or Personal Investigator (PI). There can be groups in Labs or Group Leaders that can be Lab Administrators. There can be other Researchers (Users), Lab Technicians or External Visitors.

# 🛣 Tips / Hints

The below is just an example for a research institute. However, it can be related to any institutional hierarchy.



## 3.2.1 Manage users

LabCollector allows you to create hierarchy level users in LabCollector and allot them right to access levels. You can add various user levels and grant them permissions according to their hierarchy level.



This is how the manage users page will look like.

\*The image contains a pseudo name and login.

#### 1. LabCollector

Admin/Users & Staff	S <b>EIS</b> /Manage Users				View users history log
	은 Super Administrator 2@	Master Administrators	A+ New User	🗟 Import CSV	
	Login:	admin			
	Password:				
	Verify Password:				
	Real Person:	Wanda Wong	•		
	L	Ipdate Super Administra	ator		

## 3.2.1.1 Add/Create Users

Use the Create New User section to associate login, passwords, and permission levels to each contact.

- Go to Admin → Users & Staff → Manage Lab Members → Add new member Enter basic contacts for lab staff members. Email is important. To see your staff directory, go to Tools → Staff Contacts. See Q section 10.9.
- Go to Admin → Users & Staff → Manage Users → New user Create or edit a user's login: change password, associate user names to staff contact. If you forget to create the contact, you can do it from here by using the "Create new person record" action.

Repeat this step for each person who needs to use LabCollector.

Login:			
Password:			
Verify Password:			
Real Person:	Select Contact	•	
	🐣+ Create new person record 🛛 🗲		
User Level Permissions 🕜 :	User	•	
Group Policy 🕲 :	Full Access	•	
Primary Group Restriction 견 :	No Primary Group	•	
	Create New User		

For each user you can choose one of 6 user-level permissions which are:

## 1. Super Administrator (only one user may have this permission)

This level can do everything in LabCollector: see all data, define and edit all user permissions and configurations, manage all data from all users, validate waiting for data, and manage settings.

## A Note

You have the possibility to set up multiple "super administrators", but there could only be one "**Master super administrator**" who can change the rights for all other users including other super administrators, whereas the rest of "normal" super administrators can only change the rights of other users who have a lower level permission than them.

### 2. Administrator

Just below the super administrator. They can see all data, manage all data from all users, and validate the waiting data. They have access to some "scientific" configurations mainly under the Preferences menu.

#### 3. Staff +

Just below the administrator. They can see all data, process orders, follow budgets and invoices, use the memorize items function, create common boxes but only manage their data.

#### 4. Staff

Just below the staff+. They can see all data, create common boxes but only manage their data.

#### 5. User

This level allows the user to see data, manage their data but new and edited data will be added to the Waiting data and will require validation by administrators or the super administrator.

### 6. Visitor

No administration features. They can only search and view data. No modification is allowed with this profile.

You can also define the user as belonging to a group to restrict access to the data. For more information, please see Section 3.2.2.

On the bottom, you have indications of the number of users left.

**NEW!** The user list can also be imported using a CSV file. You can download a template. The separator of the CSV file must be the **comma**. Values for groups and levels of permission must be the same ones as the values in LabCollector.



**NEW!** Filters are now available to search more easily on the user list. You can filter on username, real person, group, primary group, permission level or IP.

28 Active Us	sers List							
	Username	Password	Real Person	Group Policy	Primary Group Restriction	Permissions	IP Restriction	
#			All Contacts •	Search Groups 🔹	Search Primary Groups -	Search Permissions -	Search IP Restrictions -	
2 🗵 💽 🗉	nathalie	8	Esber Nathalie 🔹	Full Access -	No Primary Group 👻	Administrator •	No Restriction -	ക

## 3.2.1.2 Remove/Archive Users

### 1. Admin → Users and Staff → Manage Users

Archive a user ID by clicking on the trash icon  $\square$  and also archive associated contact by checking the box if this action is possible.

8	× Confirm User Rei	moval (Archiving)				^			
#	User ID	Real Person	Groups	Primary Group	Permissions				
68	adminFULL	AdminE	GROUP E order	No Primary Group	Administrator				
	This user will be archived and unable to login into the system. Confirm removal?								
		Also arch	ive associated contac	et (Real Person: AdminE)					
		Unable to arch	ive contact because I	ne's the owner of records					
			Confirm						
						U			

#### 2. Admin $\rightarrow$ Users and Staff $\rightarrow$ Manage Lab Members

Archiving of the lab member is only possible when no data belongs to this member. You can transfer data from one member to another, see section 7.5.3. Once there is no more data associated, you can hide the member by clicking on the "hide" red button below the staff ID.



# \Lambda Note

Lab member profiles and accounts can only be archived but not deleted to ensure traceability and quality compliance.

You can see old lab members in the *Hidden/Old lab personnel* tab through Admin  $\rightarrow$  Users and Staff  $\rightarrow$  Manage Lab Members and reactivate old member profiles if necessary.

谷 Active Lab Members	😡 Hidden/Old Lab Membe	ers O+ Add New Member?
	Q	
	Name:	testuserneo
	Lab:	AgileBio
	Address:	
	City:	
ID: 3	Postal Code:	
Reactivate	Country:	
	Tel:	

You can also reactivate an archived user account if necessary by checking the box "Show Archived Users

(At List's End)" and clicking on the icon.



# 3.2.2 Groups definitions

The super administrator can define groups to manage user's general permissions (confidentiality). You can read more about **CKB**: group policies in our Knowledge Base. By default, there is only the *"Full Access"* group. To define the groups:

Go to: Admin  $\rightarrow$  Users and Staff  $\rightarrow$  Manage group policies

# \rm Note

You can purchase additional groups if you need more. Please contact sales@agilebio.com.

Each group's rules can be defined to manage the user's module access, based on 3 options:

- F: Full Access
- V: View only User's access to the module is limited to only show data.
- B: Block access Users can't enter into the respective module.

Add-on access can also be set up based on 2 options:

- F: Full Access
- B: Block access Users can't enter into the respective add-on.

Existing groups settings	
Group name: GROUP A Storage	IP restriction:
Modules and add-ons access definitions:	
F V B Module	F     B     Add-on       Image: Construction of the second secon
C Strains & Cells     O Plasmids	
O Primers     C Reagents & Supplies	
Antibodies     Block access to Storage Browser	
Group sees ALL but storage limited to OWN group	
Group sees ONLY same group members' <b>records</b> and storage	
Group sees ALL orders from ALL groups (limited by user permissions)	
Exclude Full Access records	
F = Full Access; V = View Only; B = Block acces	s; 🛃 View Storage

You can manage storage visualization (options View Only) and access to the storage browser. When you create a group with View Only access for some modules, you can also check the storage box to allow users to see the storage positions and locations.

If you want to restrict storage browser access, just check the "Block access to storage browser" box.

Groups can also be defined in such a way as to filter data access between groups:

Group Sees ALL

No option checked

### • Group Sees ALL except storage

By checking "Group sees all but storage limited to own group", the group members will see all records in LabCollector. However, storage information will be limited to the group members.

### • Group sees ONLY its data

By checking "Group sees ONLY the same group members' records and storage", the group members will only see records and storage information from their group. Data is therefore secured for the group. To take advantage of this you must have at least two groups.

#### • Group sees ALL orders

By checking "Group sees ALL orders from ALL groups", all users can see all orders in the purchase order management. There is no limitation except by user permissions.

#### • Exclude Full Access records

If you check this option with one of the over, the group will not see the records belonging to the Full Access users.

# A Warning

Records made by users not affiliated to a group will not be restricted and will remain visible to ALL users in any group, except with the last option.

Permissions can be changed at any time through this menu. Search filters will also use these group definitions to help filter data by group. Super-administrator can assign master administrators to the groups under Admin  $\rightarrow$  Users & Staff  $\rightarrow$  Manage Users  $\rightarrow$  Master Administrators. These master administrators can create and manage lab members and user accounts for their group.

දිය Super Administrator දිල Ma	ster Administrators 🛛 👌 New Us	er 📓 Import CSV
GROUP A Storage:	sauvadet	•
GROUP B ALL:	No Master Administrator	•
GROUP C storage:	No Master Administrator	•
GROUP D ALL:	No Master Administrator	•
GROUP E order:	No Master Administrator	•

Super-administrator can apply more than one group to a user. To come back to full access status, unchecked all the groups.

<u>ළි</u> දු A	ctive Us	ers List				
#		Username	Password	Real Person	Group Policy	Primary Group Restriction
7	<b>(6)</b>	pierre		AdminD •	GROUP D ALL	No Primary Group
68	A	adminFULL		AdminE -	GROUP E order	No Primary Group
69	S	staffp 🔒		StaffpA 🔹	GROUP A Storage	No Primary Group
70	S	staff 🖉		StaffpB 🔹	GROUP B ALL	No Primary Group
71	S	user		StaffpC •	4 Groups Selected	No Primary Group
73	S	adminA		StaffpD •	GROUP B ALL, GROUP D ALL	No Primary Group
76	S	adminD		StaffpE 🔹	GROUP E order	No Primary Group
Π	S	adminE		StaffA •	GROUP A Storage, GROUP B ALL	GROUP A Storage

When a user is in multiple groups, the administrator can assign a Primary Group. This means that by default data are shared only with the Primary Group unless they explicitly choose to share individual records with their other group(s) as well.

If a user is in more than one group without the primary group then their data is shared with all these groups by default. The user can otherwise choose particular groups from the Share drop down while creating or editing a record.

📽 Share Options 🔻	🖬 Save	🏕 Save & Add	× Cancel
GROUP A Storage			
GROUP B ALL			

Refer to our blog article for more details.

**NEW!** For a user belonging to multiple groups with conflicting permissions such as Full Access + view only or Full Access + blocked access, the super-administrator needs to choose between two options in the page of group definition.

- F > B/V means that the Full access status will take precedence over the View only or block status.
- F < B/V means that the View only or block status will take precedence over the Full access status.

Multi Group Access Mode	
F > B/V Full Access status takes precedence over View Only or Block status if the same module has different status on different groups for same user	
✓ F ≤ B/V	
View Only or Block status takes precedence over Full Access status if the same module has different status on different groups for same user	

For example, John Doe is in Group 1 and Group 2. In Group 1, he can access the Samples module whereas the Group 2 blocks this access.

- $\circ$  With the option F > B/V, John Doe can access the Samples module, whereas
- With the option F < B/V, John Doe is blocked and can't enter in this module.

The option selected is for all modules, all groups, and all users.

# A Note

Only the super-administrator cannot be assigned to a group.

## Tips/Hints

You can delete groups that are empty (do not contain any users).

# A Warning

When only a particular group has access to a custom module and all other existing groups were blocked from editing/viewing it, and when this particular group gets deleted by the super administrator, the custom module will also get irreversibly deleted.

**NEW!** You can now select the fields that you don't want group members to view, by clicking on "Fields exclusion". You can do this for either the *main record tab*, the *analysis tab*, or even the *registry tab*. Disabled fields should not appear in records/exports of the corresponding module for users belonging to the selected group. See screenshot below.

Q Sea	rch for_									Barcoo	de
Modules	€ Tools	Preferences	이상 아이 Admin		LabCollector				(X) Help	Alerts	ww
		COUPS PC		) licies (Add, edit,)							
				Use these forms	to manage group options and levels and other opt	ions. Y	our I	cense limit: 50 groups.			
		Multi Gro	up Acce	ess Mode							
		✓ F > B/	V								
		Full A	ccess sto	atus takes precedence over View Only or B	lock status if the same module has different status	on dif	ferei	nt groups for same user			
		□ F < B/	/								
		View	Only or B	lock status takes precedence over Full Acc	cess status if the same module has different status	on dif	ferei	at groups for same user			
		Existing	groups s	ettings							
		Group no	ame:			IP res	trict	on:			
		Group I		<b></b>		No r	estri	ction ~			
		Modules		Hons access definitions:							
		FV	V F F	Module	•	F		Add-on Tube Sorter			
					⊘ Sields Exclusion		~	Central Store Management			
		• •		) Primers	S Fields Exclusion	~	~	Parser			
		• •		) Reagents & Supplies	S Fields Exclusion	۲	0	Data logger			
		• •		) Plasmids	S Fields Exclusion	۲	0	ELN			
		• •	- c	) Samples	S Fields Exclusion	~	$\sim$	Scheduler			
		0.0		A suble a disc	O Fields Furthering	۲	0	Simple Test Lab			

## 3.2.3 Manage authorized IPs

Restrictions to data can be set up based on the IP address used by the users. The super-administrator can create lists of IPs and restrain access to specific groups in Group settings or an individual user.

		37.158.29.120;81.	47.27.148			
SD home		76.167.245.170				
		<b>~</b> (	Jpdate IP restrictions			
A+ Create Ne	w IP Restriction					
	Name:					
	List of IPs:					
		Ľ	Add IP restriction			
isting gro	ups setting	IS				
	e:				IP restricti	on:
roup nam					No restric	tion 🗸
ROUP A Ste						
ROUP A Ste	orage	access definit	ions:			
ROUP A Ste lodules an	orage d add-ons	access definit	ions:			
ROUP A Sto lodules an ctive Users	orage d add-ons	access definit	ions: Permissions	IP F	Restriction	
ROUP A Sta lodules an ctive Users Us	orage d add-ons e List	access definit			Restriction D home	•

If the users are not using the right IP defined by the super-administrator, they cannot connect to LabCollector.

## 3.2.4 User action tracking

The system always stores actions done by any user in the audit trail. Super-administrator, administrators, and Staff+, if the option is selected, can check the history of the actions at any time.

8+	Manage Us Admin/Users & Staff						View users history log
		වස Super Administrator	<u>2</u> © 1	Master Administrators	음+ New Us	ser 📄 Import CSV	
		L	.ogin:	admin			
		Passy	word:				
		Verify Passv	word:				
		Real Pe	erson:	Wanda Wong	•		
			U	pdate Super Administri	ator		

History is accessed on the Admin  $\rightarrow$  Other  $\rightarrow$  Audit Trail menu.

History can be displayed for all or a particular user (by login or real name), for a defined period and can be filtered by the module. Exporting in excel format can also be done.

		Search keyword:		Show !	
	View log for past 15	days or FROM:	то	for Any Module	~ 🔀
Optional criteria:					
restrict to user: See all users	✓ or staff name has				

# 3.3 Licensing

Once you have paid for LabCollector you can obtain the license from your Client Area in two ways:

- 1. Link your Client Area service to your LabCollector directly.
  - 1) Go to Account this brings you to the Client Area login page.
  - Link Account a popup will appear asking you to log into your client account. Choose your service from the drop-down and click on Apply. Your license will be automatically sent to LabCollector.

			Š
	Provide/Choose your service id		
	5422 (963)	Apply	
xJPh			hJHvFRI%KvJ

2. Log into  $\bigtriangleup$  <u>https://www.labcollector.com/clientarea/login.php</u> copy your license key and paste it into the license page Admin  $\rightarrow$  Other  $\rightarrow$  License. More details can be found in the  $\bowtie$ KB: <u>client area tutorial</u>.

🕰 Note	
If you can't see license there, please contact 🖻 support@agilebio.com	

# 苯 Tips / Hints

Once you copy your activation key, a tool-tip will pop-up to let you know that the key was successfully copied to your clipboard (as shown in the screenshot below).

odules	C) Tools	Preferences A	승 승  우  dmin			La	bCollecto					Help Alerts	ww
	22 27 21	50 groups (max) 63 modules (max Compliance Pac	x)	29 available groups	,	f you want to char	nge or activate module	es and other options, u	se the activation key b	elow and contact sup	port or go to your clien	ti account.	
		icense: Activation Key:							⊙ copied				
		ter/update the lid		your service id number.	Or enter	the License m	ranually:	÷	- Save License				1

# **4. Preferences**

Preferences are the first customization level of LabCollector to your lab. They are used to define module options like organisms, sample categories, etc. Some options like primer labels are predefined, others are empty and need to be defined to add data.

It is recommended to explore the preferences options to create a LabCollector environment matching your laboratory activity when deploying or validating the initial use. You can always add or edit preferences as needed.

Preferences are defined in the Preferences menu.

Only the super-administrator and the administrators can access this menu.



## 4.1 Address book options

Use these fields to manage the address book categories that are used in the Reagent & Supplies and Equipment modules. To make changes navigate to:

Sellers			
Use Address Book categor	y Sellers	for vendors and brands lists in r	modules
Brands			
Use Address Book categor	y Sellers 🗸	for vendors and brands lists in r	modules
	1		
	0		
	O+ Category nar		
	Collaborators	<u>ش</u>	
	Collaborators	<u>ش</u>	
	Collaborators Clients		

Admin  $\rightarrow$  Preferences  $\rightarrow$  Address Book Options

By checking the *User Address Book instead of the built-in sellers' table*, you have to define your contacts in the *Address Book* module. For more details, go to <sup>QQ</sup>Seller's management.

#### 1. LabCollector

Sellers & Brands Adress Book Option				
User Address Book instead of built-in sellers table				
Sellers (One-time action)				
Use Address Book category: Select Category V				
Brands (One-time action)				
Use Address Book category: Select Category				
IMPORTANT: If you already have sellers data from built-in table associated to reagents or equipment they will be automatically imported into the above Adress Book category and associations converted.				

To enter new categories, enter information in the Add new box  $\oplus$  and click update. Adding new categories is limited to administrator users.

Existing options may be removed only if they do not appear in any records. Click the <sup>1</sup> icon to remove an option.

Existing options may be renamed. To rename an existing category, click the desired box and modify the name.

The change will take effect after clicking the Update & Save button.

The change in category name will be applied to all existing records.

## 4.2 Alerts use (on Screen or by email)

LabCollector has an internal alert system for:

- **NEW!** Reagent & supplies module (validity date and quantity)
- Orders
- Equipment module
- Custom field date (refer to Quehapter 5.4)
- Data validation (refer to Usection 7.1.1)
- NEW! Storage tube

This can help your lab maintain routine tasks on time.

Alerts are always displayed on all pages of LabCollector in a special menu item.

#### 1. LabCollector



User and Staff levels do not see all alerts; they only see Reagents & Supplies quantities and expiration alerts. **NEW!** Alerts are also filtered by groups.

NEW! Memorize all button on the expiring storage list.

# 🛕 Note

Alert settings use both the preferences menu for alerts and setting days to expiration and/or quantity to trigger alerts for individual records.

# \Lambda Warning

Any Equipment Record that has an active maintenance alert associated with it cannot be archived.

## 4.2.1 Expired and finishing lots/articles

Lot management is linked to the alerts system. Once activated, alerts will be displayed on LabCollector's homepage.

If you want alerts to be sent by email, you must associate an email to appropriate users under Admin  $\rightarrow$  Manage Lab Members and define  $\square$  section 3.1.2 email alerts settings.

You can also disposed your lots.

Please read the Knowledge Base KB: <u>how to dispose lots</u>.

For Reagents & Supplies, you can establish 3 different alerts:

1. You can activate alert based on the validity date of the reagents. You must define the number of days before the expiry date of the product to use as a threshold. An option is available to keep the expired products on the alert list.

2. An alert based on the minimum quantity of units can be activated. This threshold must be defined in the main record to create alerts. Any single lot with a quantity lower than the threshold will raise the alert. You can also choose to check the *"Use the SUM of all lots"*. In this case, when the stock total amount is less

than the product threshold, an alert will be activated.



3. **NEW!** Alerts can also be activated per storage location. This alert ONLY works with SHELF PART, box WITHOUT GRID and BAG. When this type of storage location is added to a product, you can define a minimal quantity link to this location. The maximum quantity does not generate an alert. It is just for the user to know the maximum number of products that can fit in a storage location.

Please read the Knowledge Base on KB: <u>how to create alerts with lots</u>.

ROOM B > Cupboard Lab 545.A2 > Reagent shelf	Reagent shelf i 🖉 🗙
for RIPA buffer	Total Quantity: 2.00 [2-5]
Min 2	
Max 5	
	ROOM B > Cupboard Lab 545.A2 > Shelf DOWN
Update	Owner:

More information on alerts and lots, read our Knowledge Base KB: <u>how to manage your reagent lots</u>.

**NEW!** You can add alerts for lots that are on hold longer than the scheduled number of days.

Ёоно	old Alert Sto	atus
	ctivate ale	rts for lots on hold
З	3	(Days)
(Ic	ots on hold fo	or longer than the scheduled number of days will trigger an alert)

## 4.2.2 Orders alerts

For the Orders Management, an alert based on the wait time for long delivery after ordering can be activated. You must define the number of days required for an alert.

ਸ਼ੂ Orders Mand	igemer	nt			
Uaiting status					
Activate alerts	s for long	g waiting delivery			
Days before alert: 30 Days					
(alerts will be only sent af	ter a minim	um waiting time)			

## 4.2.3 Equipment module

Another type of alert is linked to the equipment module.

If you activate the equipment alert feature, each time equipment needs maintenance, you will get a notification.

Maintenance intervals are defined for each equipment record and alerts are calculated according to the date stamp of the last maintenance entry log.

Alerts for equipment maintenance are sent to the person in charge of the equipment.

Equipment module
Og Maintenance alerts status
Activate alerts for equipment maintenance
(alerts will be only valid for equipment with maintenance intervals set)

If you want to use this alert, you have to define the maintenance frequency through Admin  $\rightarrow$ Preferences  $\rightarrow$ Equipment Categories

Please read our Knowledge Base EKB: <u>how to start with equipment module</u>.

You can also read more about maintenance with our Knowledge Base **KB**: <u>add/edit maintenance for</u> <u>equipment</u>.

## 4.2.4 Storage tube alert

**NEW!** This alert is available in the following modules: Strains & Cells, Plasmids, Primers, Samples, Antibodies and Chemical Structures.

You can read more about it in our Knowledge Base to KB: <u>create tubes with storage and mark their usage</u>.

It works like the alerts on product lots in the Reagent & Supplies module based on the expiration date and the minimum quantity. Here, check the box to validate the options and indicate the default number of days

## before the expiration date to receive the alert.

### Don't forget to update and save.

E Storage
🛞 Storage alerts status
Cells
Activate alerts on validity date expiration.
Days before expiration 10 days
Activate alerts on minimum quantity for number of tubes

Each time you associated tubes to a record, you can enter a minimum quantity of tubes and the expiration date of this/these tube(s). The number of days before the alert can be modified here too.

Storage Management for Ch	eck Combobox4 (Cells)
Add Main Storage	(NEW!) ©
Select Storage Place: () Locate Empty Places	Select Storage Location   Locate   Pos.
Select Box: ⊕ Add New Box	Select Box/Container
Position in Box:	
STORAGE OPTIONS	
Volume / Quantity:	mL
Optional Unique Code:	(e.g. 2D code on tube bottom, existing barcode)
Cap insert color for the set:	no color 🗸
Minimum quantity of tubes for alert:	
Expiration Date:	
Days before expiration for alert:	10
STORAGE COMMENTS	
Comments:	
	Add Main Storage

**NEW!** Now you can locate multiple empty storage places at the same time. (As shown in the screenshot above).

Alerts are disabled in the Alerts tab.

1. LabCollector



You can read more about **KB**: <u>creating alerts for tubes</u>.

# 4.3 Animals options

Use these fields to manage animal categories and statuses. You can also define animal storage locations.  $Admin \rightarrow Preferences \rightarrow Animals \ Options$ 

Please read our Knowledge Base on KB: <u>how to manage animal crossings</u>.

To create new Animal categories, status or storage facilities: enter information in the Add new box  $\oplus$  of the appropriate category and update.

Adding new animal options is limited to administrator users.

Existing options may be removed only if they do not appear in any records. Click the <sup>1</sup>/<sub>10</sub> icon to remove the option.

Existing options may be renamed. To rename an existing option, click the desired box and edit the name. The change will take effect after clicking the *Update & Save categories and status or Update & Save facilities* button.

The change in option name will be applied to all existing records.

An	imal Categories			Ani	mal Status	
31	Mouse	Mouse			Available	1
32	Rabbit	Rabbit			On Experiment	1
33	Rat			30	Dead	ĺ
34	Hamster	Hamster			Unavailable	ĺ
$\oplus$						
		Animal storage facilities				

If you want to use the *Cages scheduler* in the Animal module, you have to define the room and shelves characteristics as described in the *Animal Storage Facilities* box. Just fill in the form.

# **4.4 Antibodies options**

You can define some options in the Antibodies module. Navigate to:

Admin  $\rightarrow$  Preferences  $\rightarrow$  Antibodies Options

To create new isotypes, species, markers, applications or purity: enter information in the Add new box  $\oplus$  of the appropriate category and click update.

Adding new Antibodies options is limited to administrator users.

Existing options may be removed only if they do not appear in any records. Click the  $\frac{1}{2}$  icon to remove the option.

Existing options may be renamed. To rename an existing option, click the desired box and edit the name. The change will take effect after clicking the *Update Antibodies Options* button.

The change in option name will be applied to all existing records.

Ŵ	4 Human	
III	-	
	5 Mouse	
1	6 Rabbit	1
	7 Goat	
	17 Rat	
	Ð	
<b>İ</b>		
<b>m</b>	Applications	
<b></b>	15 Immunocytochemistry	
Ŵ	16 Western Blot	
<b>m</b>	18 Flow Cytometry	
	Ð	
	Purity	
	8 Serum	1
	9 Purified	1
	$\oplus$	
		7 Goat 7 Goat 7 Rat 17 Rat 17 Rat 17 Rat 19 Rat 19 Rat 19 Rat 10 Rat

Please see our Knowledge Base on KB: <u>how to start with antibody module</u>.

## **4.5 Document categories**

Use these fields to manage the categories of the documents that you will use in the documents module. This may be done by navigating to:



#### 1. LabCollector

ele	ct Cate	jory 🗸	
		Update 6	Save
멶	Main co	itegories	
#	Tab	Category name	
1		Le Protocols	A
2		Papers	1
3		Le Documents	<b>i</b>
4		Le Presentations	ß
5		te Spreadsheets	A
6		ta Images	A
7		Projects	<b></b>
18		te Contract	A
Ð			

In this section, you can define the default category for imported papers via PubMed tools.

You can see our Knowledge Base on KB: <u>how to start with Document module</u>.

You can also add sub-categories by clicking on E. This will bring up the options for the sub-category. Use Update to save changes.

Click on "Main categories" to return to the list of main categories.

出	Main co	ategories »Protocols	
#	Tab	Category name	
8		E Molecular Biology	ÎII
9		E Cell Culture	
10		La DNA	Î
n		La RNA	Î
Ð			
		Update	

If you check the box in the column *Tab*, this category will appear as a direct tab in the Documents module home page.

Documents		Searc	ch by: Keyword ID	
Modules / Documents	(		Q	🔂 🐻 Clear
	Operator: AND ~	Status: Active ~	Sort results by: Id	~ ASC ~
	_	Protocols	Papers Spreadsheets	Contract

The tabs provide an ability to quickly find documents. The tab filters can be combined with the expandable search and filter options.

## **4.6 Equipment options**

Use these fields to manage the equipment categories. Here you can define maintenance frequency to use maintenance alerts. (See section 4.2.3)

Î	Olemping	
	Cleaning months	with int 1
	Lamp replacement months 🗎	with int 12
	Calibration months	with int 1
	(Leave empty or type 0 for no	with int months alerts for this type of maintenance)
		Lamp replacement months m Calibration months m

Admin  $\rightarrow$  Preferences  $\rightarrow$  Equipment Options

To enter new categories, enter information in the Add new box  $\oplus$  of the appropriate category and click update. Adding new options is limited to administrator users.

Existing options may be removed only if they do not appear in any records. Click the icon to remove an option.

Existing options may be renamed. To rename an existing option, click the desired box and edit the name. The change will take effect after clicking the update button.

The change in option name will be applied to all existing records.

# \Lambda Note

Leaving the interval empty will eliminate alerting for the category of maintenance.

**NEW!**: You can now add a color for your equipment category, please note that the same color will be displayed in the equipment scheduler and also in the category field inside the module, only the super administrator is able to set choose and set a color. (See screenshot below).

Soarch for BB // () () Iodules Tools Preferences Admin		Lab	ollector			Bercode () Help Alerts
Equipment Options Protorences/Equipment Options (Add, edit)						
	C Equipmor	nt Categories	28 Maintenance Catogor	ios		
	PCR	Mochines	Minor Maintenance	every 0.5	5 months 😭	
	8 FAC	i ()	B Defrost	every 13	months 🔒	
	8 Hen	iotology	Calibration Daily	every	months 📋	
	& NMS		Belium fill	every 0.	5 months 🔒	
	Ø Lob	Services	Nitrogen fill	every	months 🔒	
	Ø Cen	trituge	Colibration (minor)	every 2	months 🔒	
	Ø Micr	oscope	Calibration (major)	every 1	months 📋	
	8 cyrc	metre	no olert	every	months 📋	
	ELIS	۱	Cleaning	overy	months 🔒	
	8 tost	Control chart	- Test Dec Int 3	every	months 📋	
	AUT	a	Botch Insert Test	overy	months 📋	
	8 Roo		Speed Calibration	every	months 📋	
	Œ	Ø	Calibración	every 1	months 🔒	
			moitenance preventive	every	months 📋	
			test	every	months 🔒	
			colibration	overy	months 🔒	
			Test Dec Int 2	overy	months	
			test	every	months	
			cleaning	every	months	
			Test Dec Int	overy	months 📋	

You can also generate control charts in the maintenance tab based on the decimal custom field. Under Admin  $\rightarrow$  Preferences  $\rightarrow$ Equipment Options, choose this decimal field and the maintenance category for which you want a control chart. Then, on the maintenance tab in the Equipment module, once the maintenance's have been created and the decimal field fill in, click on Control Chart on the top right. Fill out the form and the control chart will be created.

_	n Fields				(		
2	New Field 🖄 Verify Integrity		Field Type	Additional Info	Main List		
-	Technical documents		link		ACUV		0115 <b>12 2 1</b>
				8		-	
+1	Temperature		decimal				C S
	🗠 Control Charts						
	Default field name to use:	Temperature					
	Default maintenance cateogory to us	e: Calibration (int: 1 m) -					
		ite & Save	1				
	Updd	ite & Save					
		Control Chart for F	nnondorf Thormo	Mixor C			
		Control Chart for E	ppendorf Thermo	Mixer C			
		Control Chart for E	ppendorf Thermo	Mixer C			
		112	ppendorf Thermo	Mixer C			
	1		ppendorf Thermo	Mixer C			
	1	112	ppendorf Thermo		5 Jue: 90		
	1	112	ppendorf Thermo		5 Nue: 90		
	1	01.5	ppendorf Thermo				
		112 01.5 91	ppendorf Thermo				
		01.5	ppendorf Thermo				
		112 01.5 91	ppendorf Thermo				

The final settings boxes on this page specifies which user types can add calibrations and maintenance, and who can access and see theses entries in the Maintenance tab: All groups + Full access users (without a group) or only the group of the person in charge of the equipment + Full access users.

User, Staff, Staff+, Adr	min
🔵 Staff, Staff+, Admin	
O Staff+, Admin	
Admin only	
<b>多Who can see calibr</b>	Update & Save
All (+ full access)	

## 4.7 Export setup & models

Models can be created to export and print data from any module. Use these models to export or print your result search in each module. This allows you to quickly create exports for frequently required reports or information.

For more information, please read  $\square$ <u>3.1.7. Export and Print Setup & Models</u> and read the Knowledge Base on  $\bowtie$ KB:<u>export models</u>.

## 4.8 Lab Bookmarks

Use these fields to manage the lab's bookmarks and favorites categories. LabCollector can be used to share a common set of Internet links and favorites with lab staff.

Note that Bookmarks are not the same as the links on the homepage.

First, you need to define categories in Admin  $\rightarrow$  Preferences  $\rightarrow$  Bookmarks.

Sellers	1
Partners	1
University	Ŵ
(+)	

Bookmarks are accessed on Tools  $\rightarrow$  Lab Bookmarks (see section  $\square$  chapter 10.10).

## 4.9 Organisms

Organisms are connected to the pre-built modules Strains & Cells and Samples.

You need to define a list of the organisms you work with. The list will help you to organize strains, samples and allow more efficient searches.

To use the organism preferences option:

- 1. Import your list of organisms from a CSV file containing one value per line.
- 2. Organisms will automatically be displayed in the module selection list. You can also add organisms one by one, just write the name in the box.
- 3. Then use the <u>Update & Save</u> button.
- 4. To delete an organism, use the bin icon.
- 5. This action is possible provided that the organism is not used in a record.

1.	LabCollector
----	--------------

4	Bacteria		A
11	Cirratulus cirratus		A
27	Durchoniella	4	
2	Eukaryota	5	) A
14	HHV5		A
1	Human		A
15	Mosquito		A
13	Parasite		A
3	Virus		A
$\oplus$	2		
Loa	d from CSV (one value per line)		
▤	Click Upload To Choose File	Browse	

During record addition and record modification in the modules Samples and Strains & Cell, Staff+ users can also add organisms using the popup *Quick Add Organism*.

# 4.10 Primers options

Here you can manage options to be made available in the *Primers* module.

Admin <del>-</del>	→ Preferences	→ Primers	Options
--------------------	---------------	-----------	---------

To enter new labels or purity: enter information in the Add new box  $\oplus$  of the appropriate category and update. Adding New Primers options is limited to administrator users.

Existing options may be removed only if they do not appear in any records. Click the icon to remove the option.

La	pels		Pur	rity	
	Суз	🔽 5' side 🔲 3´side 🛍	16	Bulk	
2	6-FAM	🔽 5' side 🔲 3´side 前		Purified	
3	Amin	🗹 5' side 🔽 3´side 📶	$(\pm)$		
4	Biotin	🗸 5' side 🖌 3´side 🔟			
5	Су5	5' side 🗌 3'side 🏢			
13	ТЕТ	🗹 5' side 🔲 3´side ᆒ			
14	Texas Red	🗹 5' side 🔽 3´side 🛅			
15	Thiol	🗹 5' side 🗌 3´side ᆒ			
Ŧ		5' side 3´side			

Existing options may be renamed. To rename an existing option, click the desired box and edit the name. The change will take effect after clicking the *Update Primers Options* button.

The change in option name will be applied to all existing records.

## 4.11 Process & Actions type

Using this option you can add processes and action types to the record in the modules.

## 4.11.1 Add Process to one or a list of samples at once

Use these fields to manage the process type definitions that you will use to categorize the process transformation of samples or storage action. These settings may be viewed and changed by navigating to:

Admin  $\rightarrow$  Preferences  $\rightarrow$  Process and Action Types

Samples Process Types		Samples Process Status		Storage Action Types	
Main Types		Canceled	Û	Test 1	1
Analyse	<b>D</b>	Closed	<b></b>	Test 2	1
Bacterio	Û	Hold	Û	Test 3	1
$\oplus$		In process	<b></b>	Ð	
Update & Sav		Ð		Update &	Savo

You can add sample process types and statuses that you will use on sample records. Similar to adjusting other preferences, fields may be edited by typing in the boxes and confirming by clicking the *"Update & Save"* button. Existing actions that are in use cannot be removed. You can also add a sub-process list by clicking on <sup>16</sup>.

In the Samples module, go to Processes/Tests by clicking on the icon <sup>(2)</sup> in the left tab of your sample record.

2	BIO10		
۵	ලි Processe	es/Tests	
R	#-SPP	Action	Date
£ €	1	Analyse	2020-03-06 17:47:34
Ŷ	🕀 Add new ma	in Process 🔶	-

Then click on 🕀 Add New Main Process. Complete the form with the process details.

Process Type :	* Select the type 🗸	
Date:	2020-03-06 17:51:46	(required format: yyyy-mm-dd // optional: yyyy-mm-dd HH:MM:00)
Comments & Description:		
Process Status:	Select the status	
Process Operator:	* super admin 🗸	

Processes will appear as a list.

ô Processes/Tests							
#-SPP		Action	Date	Date Updated	Status		
2		Extraction	2020-03-06 17:53:04		Closed		
3		Extraction: Purification	2020-03-06 17:53:28		In process		
1		Analyse	2020-03-06 17:47:34		In process		

🕀 Add new main Process
You can also add up to 2 sub-process levels by clicking on the 🗈 icon on each process line and a new storage location by clicking on 😅 This storage will be dedicated to the resulting products obtained with the process.

A report of the results for each process and sub-processes can be attached by clicking on  $\oplus$ . A file can be uploaded or you can use the text editor to write a new text document.

The file will be added to the Documents module. You must click Save to complete the addition of the document.

To display all sample processes, you can click on View list on the bottom right.

In LabCollector, you can add processes in bulk to a sample list. This functionality is very useful if you apply one process to samples and you need to update it quickly. For more information, please refer to  $\frac{10.5}{10.5}$ .

## 🚹 Note

The default "Closed" status blocks the possibility to modify the process. In the same way, if the record is locked, the process panel is locked too.

# 4.11.2 Add activity log for storage actions

You can add storage activity log entries on *Strains & Cells*, *Samples* and any other module using storage. These storage logs are also automatically filled when you add, delete or move tubes/storage.

Click on the icon <sup>[]</sup> in the left tab of your record and Add New Log Entry.

-	E.coli X220			super admin	2020-03-06 15:09:28		<i>0</i> 0&	8000
	Strains & Cells						B Sove	X Cancel
\$ \$ \$ \$ \$		Date * Action Made Comments *	Image: Today       Select Action       × ⊗ Image: Im	• ource B I	L = = = <b>#</b>   »	1 2 4 E		
	Actic	on/Process Operator *	super admin	×				A
							B Save	×

You can add as many fields as you want in this log form under Admin  $\rightarrow$  Data  $\rightarrow$  Custom fields in the Registry Book tab.



The history log will appear as a list. You can edit each line.

Date	Action	Operator	Comments
2020-03-09	Test 2	super admin	Ø NA
2020-03-09	Test 1	admin 1	Ø N/A
2020-03-06		super admin	New main storage added. Box 1 - ADDED 1 tubes: A1 = 2 m

To display the complete activity log, you can use this button more ...

## 4.12 Reagents & Supplies preferences

Use this menu to define a list of reagents and/or supply categories that you will use in your lab and their packaging sizes.

Categories and packaging sizes will automatically be displayed in the module select list to create new records.

#### 4.12.1 Main options

You can use the *Quick Add* function for adding new Categories or Packaging Units while creating a new Reagents & Supplies record.

SS Ma	in Options	Å	Orders			
C Re	eagent categories		@Po	ckaging sizes (units per carton)		1 Storage
Ŀ	Cat	۵	482	500	Ē	O Simple storage
2:	reagents	8	613:	25	Û	Main storage (storage browser)
3:	Buffers		751:	4	۵	Update & Save
4:	hardware	۵	752:	2	Û	
5:	Consumable	8	758:	50	۵	
6:	Media	۵	1264:	30	Û	
7:	Animals	۵	3332	47	۵	
8:	Composite	۵	3442	ghalia	Û	
9:	Materials	۵	Ð			
10:	Final Component	A		Update & Save		

# 🚯 Note

When you create an order, the quantity ordered will be automatically multiplicate by the packaging size (if this one allows it).

See section 9.

Finally, through this section, administrators can define the storage mode between the simple storage or the use of the storage browser.

• The simple storage option corresponds to a simple list of locations that can be attributed to the reagent record. ONLY one storage can be assigned. This list is displayed under the storage options by going to *Admin* →*Storage* →*Simple Reagent Storage* 

The main storage uses the general storage browser available in LabCollector. You have to create all the storage facilities needed.

The location is defined separately from the record, multiple locations are possible and other options too (e.g. alert).

More information in our Knowledge Base KB: manage storage for Reagent & Supplies module.

# 4.12.2 Lot management

In this section, administrators can generate a list of the units of measurement for the lots.

)Ba	tch/Lots: Units of measurement (1Kg, _)		🕸 Who can destock units	🕾 Who can add stock units (batches)
21:	Tube	Û	User, Staff, Staff+, Admin	O User, Staff, Staff+, Admin
21:	100mL	Û	Staff, Staff+, Admin	Staff, Staff+, Admin
21:	250mL	Ŵ	Staff+, Admin	🔘 Staff+, Admin
21:	g		O Admin only	Admin only
21:	μι	Ē	Accept view only groups to destock	Update & Save
21:	mL	1	FIFO:      ON OFF	
21:	mg		Update & Save	
21:	L	Ŵ		
Ð				

They can also define the stock management:

- Who can add stock units: select the level permission
- Who can destock units: select the level permission.

# <u> W</u>arning

If "Who can release lots" list is empty, everyone can release lot. Only admin level users can be added and archived users can not be added to the list

If you have groups with the option View Only on the module Reagent & Supplies, by checking the box, you allow the members of this group to destock. Finally, you can also activate the FIFO option (First In First out) for the destock action. In this case, if you don't destock the oldest lot in the list or the one with the first expiring date, this alert message will appear:

FIFO is active. This led is and the first equivier with a slidest we this active is active second all Assures	and the standard late of the second of the second standard stand
FIFO is active. This lot is not the first expiring or the oldest, so this action is not recommended. Are you s	ure you want to destock it anyway?
Recommended Lot: 1665066876 (ID: 697)	
	OK Annuler

# 🛕 Note

Alert on the minimal quantity for a product works only if the unit measurement for the lot is the one by default *unit*.

# 4.12.3 Risks and safety

The section Risks & Safety allows you to manage authorization and also actions link to risks.

#### 1. LabCollector

🖗 Who can edit Ris	ks & Safety		🛱 Order risks approval		🖄 Lot disposal approval	
<ul> <li>User, Staff, Staff+, J</li> </ul>	Admin		Approval is mandatory for th	e following dangers:	Approval is mandatory for th	e following dangers:
Staff, Staff+, Admin	n					
🔵 Staff+, Admin						
<ul> <li>Admin only</li> </ul>			🛞 💿 ON 🔾 OFF	🔶 🖲 ON 🔿 OFF	🛞 💿 ON 🔿 OFF	🔶 🖲 ON 🔿 OF
GHS revisions to	Update & Save			● ON ○ OFF		
rev08 (2019)	rev07 (2017)	vev06 (2015)				
rev05 (2013)	🗸 rev04 (2011)					
Update & Save			Approval is mandatory for th Code:	Add		pdate & Save

The administrators can:

- Select which level of permission can edit Risks & Safety
- Select which GHS revisions will be available in the lists of hazards statements, precautionary statements, and specific hazards statements.
- Order risks approval option. Select the risks and the statements for which you want approval by an administrator if the product ordered is concerned. For the statement, type the first code letters and click on add.
- Lot disposal approval option. When a lot is destroyed, administrators can request a mandatory approval link to the product risk.

New! Risk safety rev09 (2021) and rev10 (2023) are now supported!

# 4.12.4 Orders

This menu displays the option management needed to process orders.

86 Main	Option	s 🛗 Lot Management 🦞 Risks & Safety	몇 Orders		
	·	vounts used for ordering 1	¢	Staff access to orders     2       Image: Staff sace all orders     2	Who can place orders  Who can place orders  User, Staff, Staff+, Admin
203: 320: 321:		budgét A budgét A	8 8 8	Staff sees only own orders (staff+ sees all orders)	Stoff, Stoff+, Admin Stoff+, Admin Admin only
322: 329: 1263: 3169: 3160: 3161: 3635:		oommun BUD94 Budget Group D Budget Ghalia Budget Ghalia 2 Budget Ghalia 3 Budget nayana		Criter requests approved  Approved is mandratory:  Off  If yes, approve only an values > 200  Monormal be approved by Adminb 1  Monormal be approved by Adminb 1  Monormal be approved by admin6raupl.1  Update & Save	Update & Save
÷		or oad from CSV (one value par line. No vorifications mode pload To Choose File Br Update 6. Save	) owse	Attow price editing:       OFF         Attow quantity editing:       ON         OFF       OFF         Update & Save	Delivery     T      Make send to seliers mandatory:     O

#### 1. Budget accounts used for ordering

This section allows you to manage the budget accounts needed to process orders. Use this to define a list of your budget accounts that will automatically be displayed in the order list manager. To hide an account,

check the box to the left of the account and click on <u>Update & Save</u>. It will automatically be removed from the list. To view hidden budgets, click on the pages symbol <sup>(1)</sup> on the top right corner. You can import all your budgets in a CSV (comma separated).

- 2. Staff access to orders, select the option of your choice.
- 3. Who can place orders, select the option of your choice.
- 4. **NEW!** Approval mandatory to order

귾 Order requests approval
Approval is mandatory:  ON OFF
If yes, approve only on values > 200
<ul> <li>1000 must be approved by AdminD </li> <li>1300 must be approved by adminGroup1_1 </li> <li>2000 must be approved by AdminFullAccess_1 </li> </ul>
Update & Save

If you choose to enable this function, by default, all the orders, with a total more than the price indicates here, will need to be approved by an administrator. You can also add other approval options indicating a threshold value associated with a specific administrator.

**NEW!** Once a purchase order gets approved, a confirmation email will be sent to the requester using our LC default template. (As shown in the screenshot below).

[LC] Purchase order approved
Т 8:57 АМ
To:
Hi,
Purchase order for item ert (1 unit), ordered on 2022-08-31 08:57:25, has been approved by

Click on  $\oplus$  to open the following popup. Don't forget to <u>Update & Save</u>.

#### 1. LabCollector

🛱 Order Amount Approval	
Amount > Must be approved by:	
	,
Add	

- 5. Modification option after approval on the price and the quantity. Select the option of your choice.
- 6. Budget mandatory to order allows making budget selection mandatory during the ordering process.
- 7. **NEW!** "Send to sellers" mandatory option. If enabled, the purchase order management system will request the action "Send to sellers" before the delivery stage.
- 8. PO number modification on current orders. Select the option of your choice. The alternative PO can be used for other cases.

Through this menu, you can also manage account settings to automatically order from Sigma Aldrich, VWR, Life Technologies, Qiagen and Storage Accessories. These settings will be used to submit orders through the Purchase Orders Manager.

SIGMA -ALDRICH Ordering account settings	vwr.com Ordering account settings	Life Ordering account settings
ACCOUNT:	CLIENT CODE:	NETWORK ID:
SENDER ID:	Sold To ID:	Bill To ID:
USERNAME:	Currency.	Country code:
PASSWORD:	ገም Ship To ID	Currency:
SHARED SECRET:	SAP ID:	양 Ship To ID
Bill To ID:	Easy Name:	Shipping ID:
Country code:	TEST MODE: (check to use the test server)	Easy Name:
Currency:	Update & Save	TEST MODE: (check to use the test server)
ିଅ Ship To ID		Update & Save
Shipping ID: test		
Easy Name: teste		
SAP ID:		
Easy Name:		
TEST MODE: (check to use the test server)		
Update & Save		

To obtain account settings please contact Life Technologies, Sigma Aldrich, Storage Accessories, VWR, Qiagen and/or your finance office.

For detailed information, refer to the Knowledge Base **KB**: <u>Reagent & Preferences-preferences</u> and **KB**: <u>Purchase Order Management</u>.

## 4.13 Reasons

If your lab purchased the compliance pack, the super-administrator can activate it in the modules of your

choice (please refer to the next  $\square$  section 5.1).

Once activated, the versioning is available. Thus, for each modification of the record, the user has to indicate a reason to explain this modification.

Default reasons can be recorded under Admin  $\rightarrow$  Preferences  $\rightarrow$  Reasons.

19 R	easons to modify record		😂 R	eason to Sign Record	
177	Data modification during the process	Û	178	Closed project	Û
176	Error during the creation	Û	179	Discarded project	
175	PI request	Û	$\oplus$		
(+)					
	Modification Reason	Select reason		~	
		Select reason			
		Data modification dur	ing the pr	ocess	
		Error during the creat	ion		
		PI request		🖬 Save	
		Other reason (please	an a aif ()		

With this compliance pack, you can also lock and sign the records to comply with the CFR-21 and GxP standards. The user has to indicate a reason to explain why he signs.

Record Signatures		
coli X220		
Sign Record Signatures will be shown in the version list. They guarantee the integrity of the Reason to Sign Record	ne data.	
Select reason		~
Select reason		
Closed project		
Discarded project		

**NEW!**: When you add a reason of signature on any record in any given module, it will appear when the record is printed and also when it's exported. (See screenshot below).

	3		-	-	- 🗆 X	
	<b>.</b>					
	🖉 Reco	ord Signatures				
	Test I-202	20404180003				
	Signed E Wanda W	ly /ong (2022-04-05 16:11:2		on to Sign Record		
	Sign Re You alrea	cord dy signed this record				
← → C ●					Ŕ	3 🛪 🖬 😩 E
ST   Strains & Cells (table: strains) Generated: 2022.04.05 (16:16:866 Records: Lated: 2						
Barcode	ID	Name	Optional Reference	Optional Unique Code		Signatures
0007676/ST	0007676	Test I-20220404180003			Wanda Wong (2022-0	4-05 16:11:25) "Reason III "
0007675/ST	0007675	Test I-20220328180002				
	-		- Generated by LabCo	llector -		

#### 4.14 Sample Types

Sample Types may be found by navigating to:

3	Blood	<b></b>
1	DNA	1
4	Hair	۱. ۱
2	Tissue	1
(+)		

Admin  $\rightarrow$  Preferences  $\rightarrow$  Samples types

Use these fields to manage the sample type's definition that you will use to categorize sample records. To create a new sample type: type the name in the box to the right of the  $\oplus$  symbol and click on the <u>Update &</u>

<u>Save</u> button. The addition of new sample types is limited to administrator users through this menu.

Existing sample types may be removed only if they do not appear in any records. Click the bin icon to remove the sample type.

Existing sample types may be renamed. To rename an existing sample type click the desired sample type and edit the name. The change will take effect after clicking the Update & Save button.

The change in sample type name will be applied to all existing records.

During record addition and record modification in the modules Samples, the super-administrator, administrators and Staff+ users can also add sample type using the popup *Quick Add Sample Type*.

#### 4.15 Seller's management

To manage a seller's database system you can choose between two systems:

The first allows you to create an external seller address book database through Admin → Preferences
 → Sellers. Fill in the form "Add new" to add a new seller/brand. To update or delete some entries, click on the name to open the corresponding record.

Sellers & Suppliers Option	าร		
Sellers & Suppliers			Add New
Quiagen		info@quiagen.com	quiagen.com
ThermoFisher	999 899 899	info@thermofisher.com	https://www.thermofisher.com

If the address book module is used, you can switch the option by checking the box below.

ellers & Suppliers Options	
ou are using the Address Boo	ik module to manage sellers contacts. Click here to manage Address Book categories
	Use built-in sellers table instead of the Address Book module Update
amina: Seller data from Add	ress Book category will be automatically imported into the built-in sellers table and associations converted.

The second allows you to manage the seller database using the Address book module. To do this, you need to identify a seller category through Admin → Preferences → Address Book Options. Check the box in Q section 4.1.

# 🔭 Tips / Hints

It is recommended to use the Address Book module to manage seller contacts (used on reagents and equipment modules).

# 4.16 Microarray Options

In LabCollector  $\mathbf{C}$ , you have the option to manage and configure your own microarray preferences.

Microarrays are powerful tools used in molecular biology research, enabling scientists to simultaneously analyze thousands of genes or proteins on a single chip. In this chapter, we will provide an in-depth guide on microarrays, their uses, and how to manage them in LabCollector.

#### • What are Microarrays?

Microarrays are small chips, usually made of glass or silicon, onto which thousands of nucleic acid or protein molecules can be immobilized in an organized manner. These chips can then be used to investigate the expression of genes or the presence of specific proteins, providing valuable information for researchers in various fields.

#### • How are Microarrays used in Experiments?

Microarrays are commonly used in gene expression analysis, where researchers can analyze the activity of thousands of genes simultaneously to gain insights into how cells respond to different conditions or treatments. In addition, microarrays can also be used for genotyping, detecting mutations, and profiling protein expression. The results obtained from microarray experiments can help identify potential biomarkers for various diseases, improve drug discovery, and aid in the development of personalized medicine.

# Managing Microarray Platforms in LabCollector

To access the Microarray Options section in LabCollector, simply go to *Preferences*  $\rightarrow$  *Microarray Options* 



Here, you can create new microarray platforms, delete existing ones, and even modify their name.

# Creating a New Microarray Platform (+)

To create a new microarray platform, just enter a name for it, then click on the Update & Save button.

#### • Deleting a Microarray Platform

To delete an existing microarray platform, locate the platform in the list and click the "trash bin" icon next to it 1. However, if the platform is currently in use, a lock icon will be displayed next to it 1, and you will not be able to delete it until it is no longer in use.

Q Search for_					Barco	Barcode	Barcode_	Barcode_	Barcode_	Barcode_	Barcode_
문문 🔑 💭 행상 Modules Tools Preferences Admin		LabCollector		(X) Нејр	Help Alerts						
Microarray Options Preferences/Microarray Options (Add, edit)											
	0.0										
	UQ P	latform									
	195	Second Test Platform									
	7163	Test	1								
	194	Test Platform									
	÷										
		Update & Save									

It is important to note that microarray platforms are a critical component of your experiments, so it is recommended that you use caution when making changes to this section. Always double-check that you are deleting the correct platform before clicking the corresponding button.

#### 4.17 Storage Tooltip Fields

In LabCollector  $\mathbf{C}$ , the <u>Storage Tooltip Fields</u> section  $\mathbf{C}$  allows you to view and manage the custom fields that are displayed in the storage tooltip for each module. In this chapter, we will provide a detailed guide on how to access this section, view the custom fields for each module, and manage them accordingly.

To access the Storage Tooltip Fields section, navigate to *Preferences*  $\rightarrow$  *Storage Tooltip Fields*. This will bring up a list of all the modules within your LabCollector instance.

Q Search for 1			Barcode	
Here in the second seco	LabCollector		Help Alerts	
Preferences				
Address Book Options	Export setup & models	🐣 Reagents & Supplies		
0 Alerts	Lab Beekmarks	😤 Reasons		
🗢 Animals Options	🖽 Microarray Options 😽 Sample Types			
🎌 Antibodies Options	00 Organisms	E Sellers		
😂 Documents Categories	Trimers Options	2 🗅 Storage Tooltip Fields		
Equipment Options	C Process & Action Types	•		

#### • Viewing Custom Fields for Each Module

To view the custom fields for a specific module, click on the module in the list. This will bring up a list of all the custom fields associated with that module. Each field is displayed with a checkbox, which allows you to select which fields should be displayed in the storage tooltip.

These custom fields can be set through the custom fields section, simply go to Admin  $\rightarrow$  Custom Fields, see chapter 5.4 for more details.

#### • Managing Custom Fields in the Storage Tooltip

To manage the custom fields in the storage tooltip, simply check or uncheck the corresponding boxes for each field. Once you have made your changes, click Save to update the storage tooltip for that module.

It is important to note that some modules have default fields that are always displayed in the storage tooltip, and these cannot be removed. However, you can customize the order in which the fields are displayed by dragging and dropping them into the desired position.

#### • Customizing Fields for Custom Modules

If you have created a custom module in LabCollector, you can also customize the fields that are displayed in the storage tooltip for that module. Simply click on the custom module in the list and then select the custom fields you want to display in the storage tooltip.

rage Tooltip Fields ences/Storage Tooltip Fields (Add,	edit_)				
Strains & Cells 🗕					
Example 1	HelpText	decimal field	sub_checkbox_field	testnt	
selectlist	choice	Analys-Text-sub1	Analys-Decimal-subl	Analys-NCBI-sub1	
Analys-URL-sub1	Analys-GPS-sub1	Analys-Select-subl	Analys-MC-sub1	multchoice	
Analys-Date-subl					
		Save			
Plasmids 💌					
Primers -					

# **5.** Customization

All modules are ready to use with a predefined data structure (fields) adapted to the expected content. Nevertheless, you may need some extra fields or numbering options for your lab-specific information. LabCollector allows you to create unlimited extra fields in each module to personalize your data forms by easily adding custom fields and by editing the default fields.

# 5.1 Record preferences (custom ID numbering/barcodes)

In some cases, your lab may need a specific incremental numbering scheme for records identification. All modules (except Address Book) can support the customization of the internal reference field.

Only super-administrator can access record preferences.

Go to: Admin  $\rightarrow$  other  $\rightarrow$  Record Options.

Records reference	Records references/ID Options						
Module	ID setting	ZEROFILL	FIELD SIZE	Force Waiting	Block Duplicates	Compliance	Automatic Naming
Strains & Cells	Full-Automatic ID     Semi-Automatic ID (editable)	🔿 Yes 🖲 No	INT(8)				none
Primers	Full-Automatic ID     Semi-Automatic ID (editable)	🔿 Yes 🖲 No	INT( 9 )				Suffix -REV
Plasmids	Full-Automatic ID     Semi-Automatic ID (editable)	🔿 Yes 🖲 No	INT(8)				none v
Samples	Full-Automatic ID     Semi-Automatic ID (editable)	🔿 Yes 🖲 No	INT( 9 )				Prefix V S-
Antibodies	Full-Automatic ID     Semi-Automatic ID (editable)	🔿 Yes 🖲 No	INT(9)				none v
Animals	Full-Automatic ID     Semi-Automatic ID (editable)	🔿 Yes 🖲 No	INT( 9 )				Yes
Equipment	Full-Automatic ID     Semi-Automatic ID (editable)	🔿 Yes 🖲 No	INT(9)				none v

# 🗛 Warning

This customization is very sensitive. Use it with care and only if you understand the effect it will have. We have added some features to reduce the risk of confusing automatic naming schemes.

▲ Note	
The record name, record ID, project co	de and optional unique code are distinct.
Eccli X220 LUX     Bacteria     Project Code     WORMS (ID: 4)     Project ode     Vorsion: 2 (QView Version List)     Optional Unique Code     55568698	
1:	ID
2:	Name
3: Proj	ect Code
4: Optional Unique Code	

Below, the record preferences are listed:

#### • ID SETTING:

Note that the ID is used by default as the LabCollector generated barcode. The use of the Optional Unique Code as a barcode is also possible.

The option is fully automatic by default; it means that numbering is automatic and incremental starting from 0.

You can define it as semi-automatic, the numbering will be automatic but can be changed manually at each record entry. Only administrators, however, will be able to alter this field.

- Usages: You can set a new incremental start, such as to include the year, enter data with passed IDs not filled, etc.
- RISKS: auto-incremental uses the last and largest value already entered. Therefore, the major risk is to have records always being numbered after an incorrect starting ID.

# • ZEROFILL:

This option formats record ID with zeros filling non-used digits, e.g. 15 would be written as 000015 for a 6-sized field.

# • FIELD SIZE:

You can determine the incremental capacity of the ID field. Used in conjunction with ZeroFill, it can give numbering like 060001 (size 6 and ZeroFill and manual start set to 60001).

# • Force waiting:

With this option, each record entered in LabCollector will be registered in a waiting list for verification and validation. This option is applied to ALL user levels. For more information, please read the <sup>1</sup>/<sub>2</sub> section 7.1.1.

# Block Duplicates:

Record NAME duplication will be blocked. This option works on Add/Edit forms and import data.

• **Compliance** (see next <sup>Q</sup>section 5.2)

# • Automatic naming:

With this option, you can choose to increment the record name (YES - name will be equal to the ID) or add a prefix or a suffix to this number which will then be automatically used in name records.

# **5.2 The compliance pack**

The compliance pack contains 6 items that are explained below.

1. Versioning of each record. Versioning keeps track of all changes saved to the record. Changes are also tracked in the audit trail, however, versioning provides a simple method to quickly access information on a record-by-record basis.

See the Knowledge Base **KB**: <u>how to do versioning</u> for more information.

E.coli X2	20 LUX	Bad	teria		
[a	Project Code	WORMS (ID: 4)			
	Creation Date	2020-03-09 15:05:52 (Last Upda Version: 2 (Q View Version List			
	Version List				
	Version Number Record	dod By	Modification Reason		Signed By
	4	super admin (2020-03-09 15:31:5 super admin (2020-03-09 15:30:3			
		super admin (2020-03-09 15:07:3			
		super admin (2020-03-09 15:05:5		adding the process	
		h to version list	4 super admin (2020-03-09 15:31:54)	View previous version	]
		Project Code WORMS			
		D 2			1
		Namo Ecol X220 LU			1
		Optional Unique Code 55566698 Optional Reference EC220			
		Comments			
			(acZAMI6,Tn10,(tetr))hsdR,mcrB,araDI39,A(ara	ABC-lau)7679,blacX74.golUgolK.psit	
		Organism Bacteria			1
		Related to Organism 0			1
		Owner super admin			
	Retu	m to version list		View previous version	
nal Unique Code	55566698				-
tional Reference	EC220				
Comments					
Genotype	F'[proAB+laclqlacZΔN	115,Tn10,(tetr)]hsdR,mcrE	3,araD139,∆(araABC-	leu)7679,∆lacX74,go	alUgalK,r

Read-only or blocked record. Data are frozen: no modification is possible except for storage.
 See KB: <u>how should I archive or delete records</u> for more information. The reason to lock the record is listed in the audit trail.

To lock a record click on the icon and the right of a record's line and check on Read Only. To confirm, you need to indicate the reason for the lock.

Archi	ive Options
E.coli	X220 LUX
	Archive/Hide Record
	The record will not be shown in search results unless it's clearly indicated in the search parameters. Modification will not be authorized in archived records. This action can be reverted in the archived/hidden record.
$\checkmark$	Read Only (Terminate Record Modification)
	The record will be shown in search results like any other record but any kind of modification will not be authorized.
	Tests are <u>finished</u>
	Reason To Terminate Record Modification
	Confirm Cancel

Once a record is locked, these icon appears to unlock the record and sign it. Only the duplication and the print of the record can be done.



# A Note

A locked record can be unlocked ONLY by the super-administrator.

3. Electronic signature on blocked records to guarantee the integrity of the data. Signatures are shown in the version list and the audit trail.

Version List			
Version Number	Recorded By	Modification Reason	Signed By
4	super admin (2020-03-09 15:31:54)	Data modification during the process	super admin (2020-03-09 15:58:12)
3	super admin (2020-03-09 15:30:36)	Data modification during the process	
2	super admin (2020-03-09 15:07:33)	Data modification during the process	
1	super admin (2020-03-09 15:05:52)	N/A	

- 4. For each modification, the user must give a reason to edit and a reason to sign. These reasons will be visible in the versioning and audit trail. Please see Q section 4.13.
- 5. Data in a custom field type text, decimal number, URL link or GPS coordinates can be read-only in the database. Once this option is selected, a value in this field cannot be added when you select *Add New Record* or modified when you select *Edit Record*. Value can only be added or changed via an API, a balance's input, a barcode reader...
- 6. Data in a custom field type text can be encrypted in the database and is only visible in the UI. Search filters and searchable options are not possible in this case.

#### **Compliance Pack for Reagents & Supplier Lots**

1- There is a option in Preferences > R&S > Lot management, to activate or deactivate the mandatory quarantine for lots. When the compliance pack is disabled for R&S, this option will stay grey.



2-When R&S compliance is active, new lots are automatically put on hold.

Reagents & Supplies		Cancel Keep on Hold (Quarantine) W Hold/Quarantine is mandatory since compliance is active
Lot Number/Barcode		#
Expiration Date	亩 Today	
Quantity *	unit  « (Alerts only work on plain units)	
Price		

#### **5.3 Defaut fields**

Default fields are editable and some options are available to set up the form record. Go to Admin  $\rightarrow$  Data  $\rightarrow$  Default fields.

# 5.3.1 General options

You can activate and deactivate these options using the switch button on the right. Note that there is some variation in the pre-built options depending on the selected module.

General Options	
1 Project Code	•
	Multiple Project Codes per record
	Project Code is a mandatory field on module form
	Show Project Code in module summary line
2 Multiple Insertion	
3 Reagents & Supplies Automatic Link	
4 Genotype Tag System	
5 Multiple Owners	
	Super Administrator
	Allow sharing between groups
6 Tube Count In Summary Line	

Retrieve all this information in **KB**: <u>how can I use default fields</u>.

Project code. This option allows you to have the project code field in the form to use the Project Code tools. The dedicated project code management page is available in *Tools* → *Manage Project Codes*. For more information, refer to Quesction 10.6.

Project codes will associate your data with a project. It's an auto-complete field but if the value is not in the Project Codes list, you may write it in and it will be automatically created. You can set up this option to be mandatory, to attribute multiple project code to the same record, and to display the project code in the summary line.

**NEW!**: Now records can have multiple project codes.

- 2. Multiple insertion. With this option, you can replicate x times the same record in your database. Records with the same *Name* values but <u>different</u> IDs will be created.
- 3. Reagent & supplies automatic link. Creating this link allows you to order directly from modules other than Reagent & Supplies.
- 4. Genotype tag system (only available in Animals and Strain & Cells module).

When you activate this function, the Genotype field is not a text field but allows you to deal with tags. Tags are automatically created when you copy/paste the genotype. The tag separators are comma and space. Spaces and commas <u>cannot</u> be part of the genotype name. The genotype tags accept most of the special characters and punctuation marks. Through *TOOLS*  $\rightarrow$  *Manage genotype tags*, you can find an admin area. More information can be found  $\square$ section 10.7.

5. Multiple owners. This function is useful when you are using group policies or strict level permission. First, the super-administrator or the administrators have to define in general option default fields (see above)

who are the people who can add secondary owners: super-administrator only, administrator, staff + or staff, just by checking the corresponding box(es). Then, when the owner of the record fills in the form, he can add secondary owners. The secondary owners have the same rights to view, edit, and use the record as the main owner.

With the option "Allow sharing between groups", the list of secondary owners will indicate staff from other groups.

6. Tube count in the summary line. As soon as a module is associated with the storage system and if the record is linked to tubes, with this option, the number of tubes can be displayed in the summary line.



- 7. Sequence info (only available in Primers module). The sequence info will be displayed as a field. The sequence entered will be available to other tools for visualization and analysis within LabCollector including a calculation of Length, Tm, and %GC.
- 8. Replicate sample. (only available in Samples module). When you activate this function, you can create a record model. When you create a new record, you can use one of your saved models available in the select list. Choose one and the form is automatically filled in with the same model values. A link between the record model and the new record will be created.

#### 5.3.2 Field options

In this part, you have access to the default field structure:

Name	Field Type	Mandatory		Additional Info		
↓↑ Name	field	$\checkmark$	$\checkmark$	8		\$
and Drop	field					
It optional Reference	field			8		\$
↓† Comments	field			8		
↓† Genotype	field		$\checkmark$			\$
↓↑ Organism	select		$\checkmark$	8		
↓↑ Related to Organism	select			8		
↓↑ Owner	select	$\checkmark$	$\checkmark$	Database Fiel	d	
↓↑ Creation Date	date			Database Field	t keeper	
↓↑ Last Update	date					

View Module Form With Current Options

- You can choose to activate or deactivate fields using the switch green button on the right (name and owner cannot be disabled). Note that these fields cannot be completely removed; only hidden by deactivate.
- Fields can be reordered by drag and drop.
- By going to Admin → Fields Order, all the disabled fields will appear to be Grey with the mention "Disabled Field" next to their name, contrary to enabled ones which are colored in white (as shown in the

#### screenshot below):

Search for_			Barcode]
品 。 口 钟 tockules Tools Preferences Admin	LabCollector		🛞 🚑 🖤
			🔲 Default Fields 🛛 🗐 Custom Fie
Cells			
Primers	Fields Order		
Reagents & Supplies			🔲 Main List 🛛 占 Analysis Tab 🛛 💵 Registry Book
Plasmids	Name	Field Type	Database Name
Samples	1 🕀 Name	field	name
Antibodies	2 🕀 Optional Unique Code	field	unique_code
Sequences	3 Application (Disabled Field)	field	Application
Animals	4 Caractères spéciaux (Disabled Field)	field	caracteres_speciaux
Equipment	5 checkbox_field (Disabled Field)	checkbox	checkbox_field
Chemical Structures		field	sub_checkbox_field
Documents	🔆 sub checkbox field secondary (Disabled Field)	field	sub_checkbox_field_secondary
Microarrays	6 🕂 Organism	select	org
Address Book	7 et decimal field (Disabled Field)	decimal	decimal_field
BloodBank	8 🕀 Owner	select	keeper
ProCap	9 et Received Date (Disabled Field)	date	received_date
	10 4 Genetype	field	aanatuna

- You can edit the field name by clicking on the text.
- Fields can be mandatory. Select the *Mandatory* box to activate the feature.
- If you want to see the values of the field in the summary line, select the Summary Line box.

ID	🗢 Name	🗢 Sample Type	Creation Date	🜲 Last Update	Temperature	\$ Sample_Date	🗢 Tube Count	
<b>C</b> 11	mBRS10000001_C015	PBMC	16-Jul-2014 11:02:41	05-Mar-2020 16:58:33	22	10-Feb-2016	37 Tubes	/04 4/00
2	mBRS10000002_C01	Cells	16-Jul-2014 11:02:41	05-Mar-2020 17:01:52		19-Jan-2017	130 Tubes	
<b>C</b> 3	mBRS1000003_C01	ADN	16-Jul-2014 11:02:41	17-Jan-2020 10:12:30			8 Tubes	/02 2/00
<b>1</b> 4	mBRS10000004_C01	brain	16-Jul-2014 11:02:41	04-May-2018 09:57:12		24-Apr-2017	12 Tubes	0 8 0 4 0 11 11
<b>D</b> 5	mBRS1000005_C01	Cells	16-Jul-2014 11:02:41	04-May-2018 12:44:25			1 Tube	0 8 0 4 0 11 11

The summary line for record 2 is highlighted in red.

- Field types and database names are also visible here.
- For some text fields, the orange icon allows you to activate an input mask.

	Name
Field Type: fiel	đ
	Field Mask Save Mask
Instructions	
<ul> <li>If providing</li> </ul>	basic plain text, just write it.
	an Intelligent Mask, write it between two ~ characters e.g. ~(000) 000 A~. Be aware that do not work with intelligent masks (comments, date, etc.).
• The ~ can b ~000~00000	e used like any other character once it is placed inside another pair of $\sim$ characters e.g. $10 \sim$
Special Chara	cters
0 = Any num	ber between 0-9
A = Any alpl	anumerical character [A-Za-z0-9]
Z = Any lette	r from A to Z [A-Z], uppercase
z = Any lette	r from A to Z [a-z], lowercase
X = Any lett	er from A to Z [A-Za-z], case insensitive

# A Note

The Owner field in the Reagent & Supplies module can be activated/deactivated (Owner field exists in Reagents & Supplies since version 5.423).

At any time, you can see the form with your current options by following the link on the bottom part. All the functions are saved automatically.

# 🛕 Note

Selecting a field as mandatory will apply to all situations when records are created, imported, or modified.

**NEW!** You now have the ability to add the document version within the summary line inside the documents module (when compliance is active).

Search for								Barcode
lules Tools Preferences Admin			lector					🛞 🖉 🌗
							💷 Default Fiel	ds 🔳 Custom F
Cells								
Primers	General Options							
Reagents & Supplies	Project Code	۲						
Plasmids Samples	Multiple Insertion	۲						
Antibodies	Multiple Owners	۲						
Sequences	Document Version In Summary Line	۲						
Animals	L							
Equipment	Field Options							
Chemical Structures	Name		Field Type	Mandatory	Summary Line	Additional Info	Active	Actions
Documents	1 Iî Title		field	1	~	8		\$
Microarrays	2 JT Description		field			₿		
Address Book	3 ↓↑ Author		select	N.	$\checkmark$	₿		
BloodBank	4 It Category		select		7	8		
ProCap	5 🕼 Transfer File		upload			₿		
LabCoat	6 ↓† File Type		field			₿		
IBL Nimbelgen	7 4 <sup>+</sup> Creation Date		date		$\checkmark$	8		
	8 J <sup>↑</sup> Last Update		date		2	8		
Patient3	• • • • • • • • • • • • • • • • • • •							
Patient3 Plants	Warning: Field Name and Owner cannot be disabled							

# **5.4 Custom fields**

LabCollector enables you to add custom fields to all modules in a very easy way.

# Go to Admin → Data → Custom Fields.

- 1. Select the module where you want to add or edit custom fields in the list to the left.
- If possible (module dependent), choose if you want a custom field in the main form or the Analysis tab (see <u>Section 5.3.2</u>)/Maintenance tab (Equipment)/Risk tab and Lots tab (Reagent & Supplies)/Registry book tab (in all modules with storage option).
- 3. Click + New Field to create a new custom field.

New Custom Field	6 Field Type
1 Norme:	Text Field With Length 50 V
2) Helper Text:	Disallow values that don't match a record's Prefix Name - Suffix
Will be displayed in a tooltip shown when mouse is over the field name	Decimal Number
3 Postfic	Autocomplete Field
Will be displayed after value	NCBI Autocomplete
4 Keyword Searchable: No -	URL Link
Field Color: 8	GPS Coordinates
	Select List
5 Field Options	Multiple Choice Select List
Summary Line	Ves/No Select
Search Filter	Checkbox
Mandatory Field	Date
Field with unique values	Time
Read Only Field	Time
Encrypted Field	Datetime
	Database Upload
	Disk Folder Upload
	Tracking Link
	User Select List
	Search Into
	Line Separator
	Calculated Field
	7 Field Location
	General Field
	Analysis Tab
	Registry Book
	✓ Create Field

When you add a new custom field, a form opens:

- 1. Specify the field name.
- 2. You can add helper text which is visible in modification mode (appears when hovering the mouse on the field and below the field name). For example, see below image:

Select list field	Val 1	
Selectist	lect list	

3. You can add post-fix text as units visible in modification/view mode and on export and print reports. For example, see below image:

Volume R1	ml

- 4. Keyword Searchable allows you to be able to search the field name. You can also change the color of the field using "Field Color".
- Choose the custom field type. You can also see the Knowledge Base on KB: <u>different custom field</u> types.

Choose the category of your fields if needed. For more information, please refer to the chapter below.
 You can also define here the location of the field (Analysis tab or Registry book tab). See <u>Section</u>
 <u>5.4.1</u> and <u>Section 5.4.2</u>

苯 Tips / Hin	its			
NEW!: You w	vill get an error when r	naximum length of field	is exceeded.	
Text length 50	ciated to the CAGG region of the			
		Maximum Field Size Exceeded		
Text length 100		Maximum Field Size: 50 Chars (your text has been truncated)		

\* If you want to include the field value in the Module Summary line. The following field types can be selected for the Module Summary Line: Textbox, checkbox, drop down select lists, and date types.

7. Field location helps you set the location of the field. You can set it in the main list or analysis or registry book.

To have all the information on custom fields, please refer to KB: how to create custom field.

If you encounter an issue after creating/deleting or editing the name of a custom field (e.g. the module doesn't work anymore), you can check the field's integrity with the link of the same name. Use with caution. This action cannot be undone.

Verify Fields Integrity
The following fields have integrity problems and will be removed: <b>n_of_tubes_vol</b> (Legend: N° of tubes (vol in µL))
Proceed Close

**NEW!**: The three following fields now support Read Only attribute: Date, Time and Datetime. (See screenshot below).

1. LabCollector

Field with unique values  Read Only Field  Non Editable Field  Encrypted Field	1				
Field Type					
Text Field With Length	50 ~				
Disallow values th	nat don't match (	a record's Prefix	Name	✓ Suffix	
Phone number					
Decimal Number					
Autocomplete Field					
Search Into					
NCBI Autocomplete					
URL Link					
GPS Coordinates					
Select List					
Multiple Choice Select L	Multiple Choice Select List				
Yes/No Select					
Checkbox					
🗌 Date					
🗌 Time					
Datetime					
Database Upload					
Disk Folder Upload					
Link					

**NEW!**: There's now a new field option that you can select, which allows you to have a non editable field that only allows modification upon creation.

w Custom Field	
Name:	
Helper Text:	
	Will be displayed in a tooltip shown when mouse is over the field name
Postfix:	
	Will be displayed after value
eyword Searchable:	No -
Field Color:	Ø
eld Options	
Summary Line	
Search Filter	
Mandatory Field	
Field with unique	values
Read Only Field	
Non Editable Field	d (Only Editable On Create)

# A Note

When activating the name modification (which is disabled by default) in the module form, it will now display a warning if the name is currently used in an auto-complete custom field. (See screenshot below).

#### 1. LabCollector

Reagents & Sup	blies	Share Option
🖽 Record Data		
🛠 Risks & Safety	(!)	]@ ]
	Autocomplete Field	
	This record name is used as link in a autocomplete custom field.	:::::::::::::::::::::::::::::::::::::
	If you alter the name please verify autocomplete fields that use this name as link.	manho -   <u>A</u> - <b>[]</b> -   ?

**NEW!**: Calculated fields can now be rebuilt within admin area, just go to *Admin -> Custom fields* and click on the gear icon <sup>\$\$</sup> located next to the calculated field of your choice, then click on Rebuild Formula (as shown in the screenshot below).

Test calculated	
Field Type: calculated	
	The process can take some seconds           Rebuild Formula         Cancel

#### 5.4.1 Custom fields group

Fields can be grouped into specific categories. This helps to organize custom fields for specific usage for different types of records.

- 1. First, create a custom field in a module. Choose *"Select List"* as field type and check *"FIELD CATEGORY"*. Validate the field modification.
- 2. Edit the values list that will represent the categories (<sup>44</sup>).

Case_type				
Field Type: select				
	Manag	e Options Save		
	132	Sexual abuse	×	
	136	Homicid	×	
	137	Effraction	×	
	138	Suicide	×	
$\oplus$				
Load CSV CSV File Upload				

Default values can be configured. To define a default value, just select it by clicking in the left square.

CSV/text file of pre-selected values can also be imported.

IDs of each value are on the left if you need it in some function to import data.

Once the fields are created, each new field can be assigned to a general category or to a specific category that you have defined.

# 🔭 Tips / Hints

Common fields to all categories can still be edited. To do this, just leave the GROUP Field choice as "General Field".

You can create 3 levels: parent field, sub-field, and sub-sub-field.

4	⊕ Str	ain_and_cells_type	select	Ê		📑 📽 🛢 📋
	$\Leftrightarrow$	Location	WORMS	checkbox		💷 🤹 🍔 🛅
		↔ Size	Mount Batten	field	002	📑 🕫 🖏 🛅
		↔ Site_name	Stonehouse Pool	checkbox	Die 🕂	🗉 📽 🖏 📋
		↔ Individu_name	Stonehouse Pool	checkbox		📑 端 🍔 📋

For more details, refer to the **KB**: <u>custom field category option</u>.

#### Note

Please note that you also have the possibility to select multiple field options for your custom fields (see screenshot below).

0					×
	Name				^
	Helper Text				CO ZUP WW
Andrew Dest Protocol Andrew		Will be displayed in a tooltip shown when mouse is over t	ha field clame		The second
	Postfix				In Elfonstern I has
12488		Will be displayed ofter value			
Primars	Custom Fields	No			
Recognite Structure	Field Color	Ø			I management and
Pleneroitte	Allowing and a second			Asternand Isla	10000
Contract Contract	Field Options				000.0150.0
and the second se	Summary Line				and the second
Antiboours	Search Filter				中國會員會
.5691000000	Mandatory Field			9 N	南区重动直
Ammaka	Field with unique	e values			中國自由國
Employment	Read Only Field			61 MP -	夏27 曹松道
Provincial State of Contract		id (Only Editable On Create)		1.20	CONT
	Encrypted Field			1 × 12	010460
Discussion	Field Type				015508
Microandys	Text Field With L	moth 50 Y		17	
- Additional Block		alues that don't match a record's Prefix Name	✓ Suffix		中区自动音
Hostiners	Phone number		- 3000	19.	AC 是 43首
ProCon	Decimal Number	e)		9.2.8	的掌握着
1/15/26/14	62 1 mit in Autocomplete F	ield		2 A	中区 是动音
	Search Into			a www.	028108
пареатичн	NCBI Autocomp	ieto		1.4.10	0148448
(interior)	URL Link			a er an	00.540
Permit	GPS Coordinate	9.)			
In Vivo Pre-etasiecii straty.	Multiple Choice	Select List			化量合置
Altimolii Imeniatiotion	Yes/No Select				CSHO
	LANS AND A DESCRIPTION OF A				Contraction of the local division of the loc

# 5.4.2 Analysis tab group

This option allows you to create a specific data form separated from the main record form. You can use it to save secondary data like analysis results. If you want to use the analysis tab, you have to define custom fields and save them under the analysis tab option (microscope icon C).

Custom fields are presented in the module by creation order. All fields can receive preset values (field masks).

Read more in our **KB**: <u>about tab analysis option</u>.

You can use text, select list, checkbox, and decimal custom field types to create an analysis tab according to your needs.

- 1. Create a custom field as a line separator and check the analysis tab option. It will be used as a tab title separator in the analysis tab.
- 2. Define custom fields in the analysis tab.
- 3. Add/edit or import values in the *Analysis tab* by clicking on  $^{\bigcirc}$ .

Analysis Tab		Save Cancel
Test Long Analysis *	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	
	Analysed composited displayed 10% increase the expression of gene	
		4
	Composite Analysis	
Analysis 1 * Analysis 2	✓ result 1 ✓ result 2 ☐ result 3 (Add/Edit Values)       37.89	

4. Click on tab icons View in TAB format or View in List format on the right to toggle between viewing analysis as tabs or the complete list. Tabs correspond to the line separator. The tab automatically titled 'Main' covers everything appearing before the first separator.

ID	🔷 Name	Owner	
1	SaoS-2	Tusamda Nayana	⇙↺◬兽⇙▥ઉ
<u>ک</u> (	🚱 Analysis Tab		🔶 🗄 View In List Format 🛛 🖨 Print
<b>A</b>	🗉 Main		
⇒ _			
¢.		analyse 1	
E			Sedit Values 📲 Import Values
1			

# A Warning

• If you delete a field, all data stored in that field will be lost! There is a warning before confirming the field deletion.

- When editing a field, if you reduce its size, longer data will be truncated.
- Changing an existing field length or type can cause a loss of data or format data in the field such that the original meaning is lost.
- Some field names can induce MySQL errors. If this occurs use another name.
- The analysis tab can be used by some LabCollector add-on modules.

# 5.5 Custom modules design

LabCollector integrates predefined modules to store specific types of data. Real situations are endless and therefore LabCollector includes the possibility to create and design custom modules.

#### Note

This option requires a valid license that covers this optional feature. For version 5.21 onward in a full license, if you hide a default module under  $ADMIN \square Setup \square$  General settings, logo, modules names, it is replaced by a custom module within the limit of 13 modules.

A module editor is located in Admin  $\rightarrow$  Data  $\rightarrow$  Custom modules. It is accessible to the Super-Administrator and Administrators. Once inside, you will get the following interface:



- **1.** Give a name to your module.
- 2. Define a two-letter code (for the record identification).
- 3. Select an icon:
  - Upload an icon of your choice, note that the size 119×119 is recommended.
  - Choose from a variety of predefined green background icons.
  - Use the design blanks (blue, orange or green) to create your own icon (right click and save). Add text/graphics etc. to the blank using any application. Save the final icon as an image, then upload it.

4. You also have 9 optional features:

- Comments tab: for each record, you can add some comments. A comment field is displayed in a tab.
- Action registry book tab: for each data, you can add activity log (not link to the storage system).
- Include storage system and log registry: your samples can be added in the storage system.
- Use the animal storage system: your data can be linked with the animal storage.
- *Direct sample conversion*: From an initial data record, you can create a derived sample as a new data record in the *Samples* module.
- Direct reagent, batch and safety data link: your data will be associated to the Reagents and Supplies module record for ordering purposes.
- Analysis tab: for each type of data, you can add analysis fields in a specific tab. More details on the KB <u>Custom fields-tab analysis</u> section Analysis Tab.
- Include the process tab: for each record, display processes/tests.
- *Include the risks tab*: once this box is ticked, the custom module you are creating would be able to import and display risks & safety data for each record. (As shown in the screenshot below).



Check more details in the KB: <u>creating a custom module</u>.

# 6. Storage System Management

Labs have a lot of reagents, samples, antibodies and various other supplies that they always store in a relevant environment and in stocks. Some chemicals need a particular temperature and some supplies need to be maintained in a particular stock.

For this purpose LabCollector offers you to create a storage system management.

#### 6.1 Configure the storage system

LabCollector comes with an empty storage system. You need to configure it to reflect your lab facilities, equipment, and organization.

Go to Admin  $\rightarrow$  Storage  $\rightarrow$  Manage Storage

Here you can create boxes, list and manage existing boxes, define new locations and facilities, and temperature options.

🔁 List Existing Boxes 🔤 Create New Box (storage manager) 🏠 Facilities 🛿 Storage Equipment 👔 Temperatures 🚯 Options 🚍 Models 🔊

You can also read our KB: on how to configure storage in LabCollector.

#### 6.1.1 Defining facilities and locations

Facilities can be, for example, places where you keep your storage items. Labs can have rooms where they store their items.

For example, let's say the storage room for a lab is ROOM\_Lab01 and it is a room where you store your sample like biology cell/bacterial/tissue/chemical/soil/etc samples.

The first level is created and edited from the Admin menu. If no location is defined, all storage places are referred to as under "No location assigned" or "Main location".

#### Go to Admin → Storage → Manage Storage → Facilities

ᡗᡘᢪᢂ	dd New Storage	Facility?			
	Facility Name:				
	Description:				
Asso	ciated to Group:	o group v (use this to limit the facility to group members)			
	Save				
ណ៍ s	torage Facilities				
	Facility No	me: Lab A100			
1	Descrip	ion:			
	Associated to Gr	pup: No group V			

Here you can add new main locations or edit existing places. Give a short name for the location and a description.

The storage facility may also be associated with a group to limit access (see Groups definitions in  $\square$  section 3.2.2).

## 6.1.2 Creating storage equipment

LabCollector allows you to create racks, drawers, shelves and canisters.



#### To create equipment go to Admin $\rightarrow$ Storage $\rightarrow$ Manage Storage $\rightarrow$ Storage Equipment

T Add New Storage Equipment?	
Equipment Name :	• @
Equipment Type:	Freezer/Fridge
Facility Location:	No facility assigned V
	(Where the equipment is physically located)
Notes:	
Number of racks/drawers/shelves/canisters:	(empty or zero = unlimited)
Positions per rack/drawer/shelf/canister:	(empty or zero = unlimited)
Equipment Data:	Please Choose v (from
	equipment module)
🔒 Storage Temperature:	Please Choose V *
☆ Preferred For:	None
Automatic Storage:	Yes, make it automatic.

Complete the form. If you want to manage the available rack space and box positions on racks, you'll have to indicate this information.

You can link to an equipment record from the Equipment's module to manage maintenance.

You can also select a module to have this equipment as the storage location by default. If you select the option for *Automatic storage*, the position in the box will be given automatically following the option defined in the storage system (see  $\square$  section 6.1.4 to define storage system options.).

Then click on *Save*. The new equipment will immediately be available on the storage equipment list. (See screenshot below).

	Search Name	Search Equipment Type 🛛 👻	Search Facility Location 👻	Search Equipment 👻	Search Temperature 👻	Q
Ref	Equipment Name	Equipment Type	Facility Location	Equipment Data	Storage Temperature	
1	UltráFreezer	Freezer/Fridge	Bayer	Analyser 1	-80°C	6
2	Cryo Storage 11	Liquid Nitrogen with Racks (cryotubes)	ROOM B	Teste	-168°C	ð
3	Sanyo 2	Freezer/Fridge	ROOM B		-80°C	ð
5	etagère	Shelf	ROOM B	test for Lauraine	+25°C	ð
6	Ln 231	Liquid Nitrogen with Canisters (straws)	Bayer		-168°C	ð
7	Brease A	Freezer/Fridge	Room no group	TestFilePath á	-20°C	ð
8	Brease B	Freezer/Fridge	Room no group	Centrifuge		ð
9	pt100	Freezer/Fridge	ROOM B		-80°C	ð
10	fridge 100	Freezer/Fridge	Bayer		-80°C	ð
n	fridge 2	Freezer/Fridge	Bayer		-80°C	ð
12	Freeze	Freezer/Fridge	Room no group		-80°C	ð
13	AUTOFREEZéR	Freezer/Fridge			-80°C	ð
15	Cupboard Lab 545.A2	Shelf	ROOM B		+25°C	ð
16	Freezer8	Freezer/Fridge	ROOM D		-20°C	ð
17	Freezer3	Freezer/Fridge	ROOM C		-20°C	ð
18	Inorganic Salt Box	Shelf	ROOM B		+25°C	ð
19	import with storage noted test	Freezer/Fridge	ROOM D		-80°C	ð
20	Freezer 1-80	Freezer/Fridge	James test facility		-80°C	A
21	Small Fridge 4	Freezer/Fridge	James test facility		+4°C	æ
22	Top Shelf	Shelf	James test facility		+25°C	

## 6.1.3 Defining temperatures

#### You can define temperatures through:

```
Admin \rightarrow Storage \rightarrow Manage Storage \rightarrow Temperatures
```

() s	Storage Temperature					
l	+25°C	<u></u>				
l	+4°C	<b>A</b>				
l	-20°C	<b>A</b>				
l	-80°C	<b>A</b>				
l	-168°C	$\otimes$				
l	-194°C	<b>a</b>				
	Update					
<u>()</u> A	Ĵ Add New Temperature?					
l	New Temperature: Save					

Temperatures are going to be used for managing your storage equipment. Some of them are predefined and locked.

# 🛣 Tips / Hints

This temperature definition is meant as the ideal temperature.

## 6.1.4 Define storage system options

Through this menu, you can define multiple storage system options, such as: storage method, replication storage method, tube cap colors, straw colors, plus the option to disable aliquot barcode display. To access it, go to Admin  $\rightarrow$  Storage  $\rightarrow$  Manage Storage  $\rightarrow$  Options. (as shown in the screenshot below).

Q Sea	rch for				Barcode
	y Tools	C Preferences	이상 아이 Admin		🛞 🚑 👐
Adm	inage in/Storage	Storage /Manage Storag	System e System	1	
				🖽 List Existing Boxes 🛛 😂 Create New Box (storage browser) 🗟 Facilities 🛱 Storage Equipment	🖁 Temperatures 🕃 Options 🖨 Models 🤊
				Automatic/Suggestion storage method	
				Turn Off storage guesser.	
				On first available position: Fill any grid hole found on the basis of first found, first taken	
				Or	
				On last available position: Fill at the end of the storage list ignoring holes	
				Save	

 <u>Automatic/Suggestion storage method:</u> The storage guesser feature allows you to optimize your storage usage by automatically filling any empty spaces (or "holes") in your storage grid. You can choose to turn this feature ON or OFF depending on your preferences.

Additionally, you have the option to select the "first available position" or "last available position" filling method. The "first available position" method will fill any holes in the storage grid in the order in which they are found. The "last available position" method, on the other hand, will fill holes at the end of the storage list, ignoring any empty spaces that may be present elsewhere in the grid. The choice of filling method will affect the way the storage guesser organizes your items and may impact the overall efficiency of your storage system. (As shown in the screenshot below).

Automatic/Suggestion storage method					
Turn Off storage guesser.					
On first available position: Fill any grid hole found on the basis of first found, first taken					
Or					
O On last available position: Fill at the end of the storage list ignoring holes					
Save					

 <u>Replication storage mangement method:</u> here you can control the relationship between master samples and replica samples in your storage system. Please note that by default, all actions performed on the master sample will automatically be applied to all replica samples. This means that if you move, delete, or update the master sample, the same changes will be made to all replicas. This is useful for keeping your samples organized and ensuring consistency across all replicas.

On the other hand, "Replica samples independent to master sample" means that replica samples will only be linked to the master sample based on the first storage. This means that any further actions or modifications made to the master sample will not be automatically applied to replicas. This option might be useful if you want to have more control over the replica samples, and make changes to them without affecting the master sample. However, it may lead to discrepancies or inconsistencies between the master and replica samples over time. It's up to you to decide which one fits your use case best.

 $\overline{{\ensuremath{ \hbox{ J} }}}\,\overline{{\ensuremath{ \hbox{ J} }}}\,\overline{{\ensuremath{ \hbox{ B} }}}$  Replication storage management method

Default : Replica samples always linked to master sample (all actions done on master storage always applies to all replicas)
Or
Replica samples independent to master sample (first storage link only)
Save

<u>Manage tube cap colors</u>: this feature allows you to easily identify and organize your samples by
associating different tube cap colors for specific sample types. This feature will be displayed on the box
maps, making it easy for you to quickly locate and identify your samples. For example, red for blood
samples and blue for DNA samples (as shown in the screenshot below). tube cap color collection will
be displayed on the box maps.

# 🛣 Tips / Hints

You can always define sample types under Admin  $\rightarrow$  Preferences  $\rightarrow$  Sample Types

Manage tube cap colors			
dit or add colors from the color picker belo	N:		
Tube cap colors			DEL
157 Ø #2F1DF4	(DNA))	DNA	
160 <b>#</b> FF0000	(Blood))	Sang 🗸	
163 #00FF00	(Tissue)	Tissue	
$ \oplus \square                                   $		Sample type ~	
No	te: Please check the checkbox to confir	m adding a new color	
Note 2: When indicating a	i sample category, color will be assigne	d automatically to records on that cate	gory.
	Update Tube Cap Co	blors	

• <u>Manage straw colors:</u> this feature allows you to customize and organize your straws by selecting your

preferred color (which can be done from a predefined color palette) and setting rules for color usage. Additionally, you can decide whether colors can be repeated in the same visotube or not. This means you can choose to have multiple straws of the same color in the same visotube. This can be useful for keeping track of multiple samples that are stored together, so you can easily differentiate between them by just looking at the color of the straws.

Aanage straw cold			
Colors can be rep	beated in same visotube		
Edit or add colors from th	he color picker below:		<u> </u>
Straw cold	ors	DEL	
154 <i>B</i>	#FFFF00 ( )		
167 🔗	#FF8000 ()		
$\oplus$	8 #FFFFF ()		
	Note: Please check the checkbox to confirm adding a new color. You can give an alternate name to each color.		
	Update Straw Options		
	#2FIDF4		

The colors can be selected using the tool or by typing in the color code directly.

The text within the parentheses will be displayed on the expandable legend tab of the box view and list view (as shown below).

	Al								
	R_S2_I2_D	b1-DNA <sup>.</sup>	-1						
	Module: SP								
	<b>ID:</b> 55								
	Description:								
	Unique code:								
	Owner: Sauvad	let Anne-							
	Laure								
	Date created:	2020-07-08	3						
	18:50:09								
_	Volume: mL					_			
B	Storage Comn	nent:			🖨 Prir	nt 🖄 A	dd tube		
1	2 5			6	7	8	9		111
R_S2_I2_			-						DNA 👘
A Db1- DNA-1 A1 1	A2 2 A3	A4 4	A5 5	A6 6	A7 7	A8 8	A9 9		Blood
в	e e	Ð	Ð	Ð	Ð	e	Ð	•	Tissue
			D						

Box view showing color legend.

9	Вох	(View	List View		<del>\</del>	Print	초 Add tube			
	Pos.		Name	Vol.	Stor. comments	Date	created	•	DNA	
	A1	R_S2_I	2_Db1-DNA-1			2020-07	-08 18:50:09	•	Blood	
			68 :	Rack	-01.Boite C4			•	Tissue	

List view showing legend.

• NEW! Display Aliquot Barcode: here you have the option to disable aliquot barcode display (which is located to the right of the record's name inside the module).

IIIII Display Aliquot Barcode				
Disable aliquot barcode display in module records				
	Save			

# 6.1.5 Box models

Box or plate models can be created and use when a box is added to the storage browser. Just fill in the form clicking on *Add model*. Models can also be created directly from the box creation form. Please check our **CKB**: how to create box models for storage.

		⊒∰ A	.dd model
#	Model Name	Edit	Del model?
1	Plate 96 well	ei	e
2	Box 96 tubes	 ei	e
3	Box 100 tubes	 esi 🗹	Ē
4	Box 81 tubes	 ei	e

# 6.1.6 Creating boxes & Racks

You can create new boxes through

Admin  $\rightarrow$  Storage  $\rightarrow$  Manage Storage  $\rightarrow$  Create New Box or Tools  $\rightarrow$  Storage Browser The window is displayed in the Storage Browser & Manager.



Choose the equipment where a new box is required. The same form may be used to create a box and a new rack/drawer at the same time.

- 1. Add new drawer/rack in...
- Indicate a rack name and add.
- 2. Add new drawer + a new box in...

Add New Box?	Use model: Choose a model to apply 🗸					
Box/container Name: For straws type the visotube name/color) Box/container Description: This box cannot be a replica box because no master box has been indicated.						
Type:       Box (with grid divider)         Size:       A       1 $(a_{G}, A) \rightarrow \emptyset$ Size:       A       1 $(a_{G}, A) \rightarrow \emptyset$ Size:       Cloar all blocked positions (turn the box square again)						
Storage Equipment: Lab Al00 >>> -80 °C 100-3 (-80 °C) v • Tower/Rack/Drawer/Canister No. or reference: Select or leave Floating v Position (View positions already taken: Boxes/Containers List v)						
Owner: Common Box v share common box to: Any Group v						
Save this box as a model Model Name: (model name is mandatory to save the model data)						
Save Box Cancel						

Choose the box name and add a description.

Then choose the box type (Box with grid divider, Box with no grid, microplate or tube tray, visotube for straws, bag/container, and shelf part) and size:



• Box with grid divider:



Box with no grid



Bag/Container

Position	Content
#1	<u>2-T1</u>

• Microplate or tube tray



• Visotube for straws (See Usection 6.1.6)



#### Special format:

If a special format is needed click on the  $\bigotimes$  icon to lockbox positions by point & click (see the example image below).



You can also change storage equipment if you want to create a new box in another place. Select a rack and the position where the new box will be created.

## A Note

The new rack will be created along with the new box. If the rack already exists, it will be automatically filled on the form. If you leave the rack field empty, the box will be assumed to be floating.

# A Note

You can easily move boxes (multi-select mode) between racks by dragging and dropping them in the Lab Storage Tree. It is also possible to use the edit box to change the location.

Finally, if you want to save this box as a model, choose the option and give the box a name, then click on the save box as a model. Next time a new box needs to be created, you have the option to choose any of the models you have created.

# 🛣 Tips / Hints

Note that several common box models are preloaded.

Saved models are displayed in Admin  $\rightarrow$  Storage  $\rightarrow$  Manage Storage  $\rightarrow$  Models and can be edited or deleted through this menu.

Add New Box	?	Use model: Choose a model to apply 🗸
	Box/container Name: (For straws type the visotube name/color) Box/container Description: This box cannot be a replica box because no master box has been indicated.	Choose a model to apply Plate 96 well Box 96 tubes Box 100 tubes Box 81 tubes
<u> </u>	Type: Box (with grid divider) ∨ Size: A ∨ 1 ∨ -> A ∨ 1 ∨ (α.g. A1->10)	

You can also generate a list of boxes and racks inside a piece of storage equipment by choosing *Auto-fill*. This automatic filling is based on details in the form below.

🔛 AutoFill Rac	ks + Boxes				
Here you can gen	erate a list of box and rack	s inside this storage equipment. This automatic filling is based on details defined in the form below.			
😅 Define B	lox/Container format	Use model: Choose a model to apply	-		
Ŀ	*	Type: Box (with grid divider)			
	Owner for all boxes:	uppr Admin 🗸			
Define autof					
Choose the aut	ofill method. Select Manua	I or by CSV import. Manual will increment the names with a numeric suffix. CSV will use the names provided in the CSV file.			
		O Manual Sattings			
		Box/container Name PREFIX: (box names will be incremented based on this prefix)			
		Rack/Shelf name PREFUC (reack names will be interemented based on this prefix)			
		Racks starting number or letter. 1 (rack names will increment as 0.02. or Ali.)			
		number of racks to generate: 🕤 of 7 allowed			
<u>2:</u>		<u>Or</u>			
	CSV Sottings				
	CSV file to import:	Click Upload To Choose File Browse (50-8859-1 V			
	Labels on line 1 (fi	st line will be skipped)			
		Field Separator 🔿 Comma 🔿 semicolon 🛞 TAB 🔿 Custom separator:			
		Generate all boxes and racks			

First, you need to define your box/container format (you can apply a model). Then, choose the auto-fill method according to your needs.

- Manual settings will increment the names based on a prefix.
- CSV will use the names provided in your file.

# 🕰 Warning

If you create a bow with a name already in use, you will have a warning popup saying: *Box name already taken.* In this popup you will have two options to cancel or to replicate the name. If you chose to replicate you will have another popup to confirm the replication.

New! Now is possible to add the expiration date and minimum quantity options in the replicate box tool.

## 6.1.7 Creating visotubes for straws

Go to Tools  $\rightarrow$  Storage Browser.

- 1. Choose the equipment where you want to create visotubes.
- 2. Click on Add new drawer with new box. The same form may be used to create a box (visotube) and a new drawer (canister) at the same time.
- 3. Indicate a box name (for straws: indicate the visotube name and color) and description.
- 4. Choose a box type: Visotube for straws and define the number of straws allowed (required).
- 5. Canister: select Add in new rack or existing rack and define a rack name.
- 6. Define a position in goblet.
- 7. You can also save this box as a model, then save.
  - G BatimentG5
    EquipmentG5
    StrawsG5
    Rack1
    RACK NAME
    StrawList
    Imported rack 1
    Imported rack 2

Before adding straws in the visotube, you have to define color options through:  $Admin \rightarrow Storage \rightarrow Manage storage \rightarrow Options$ 

NEW!: The storage now displays total stock of Straws

<b>-</b> 569	Buffer 5	Buffers	1 Straw 🗒 🖉 🖒 🕹 🖨 🖉 🛄 🕻
Q	Creation Date	12-Nov-2018 15:30:40	Storage
<u></u>		Version: 1 (Q View Version List)	Visiotube2 i 🖉 🗙
T	Comments & Description		•
5	Category	Buffers	
2	Seller		BatimentG5 > StrawsG5 > Rack1
S	Seller Price		
0	Brand		Owner: Wanda Wong
译	Seller Reference		Total Stock: 1 Straw
78	Packaging Size		Add Storage
	CAS Number		Availability

### 6.1.8 Replicating box structures

To speed up the box definition process, complete box structures can be replicated automatically. At first, you need to define replicating box options through

Admin  $\rightarrow$  Storage  $\rightarrow$  Manage storage  $\rightarrow$  Options



To replicate a box, you need first to display the box list in a given rack and then click on the replication icon

Stora	ge l	Brow	ser & Manager				
$\Box$				Boxes In Thi	s Drawer (A1 On AUTOFREEZER)		Capacity:Tubes Taken:0Tubes(0.0%)
Ref		Pos.	Box Name	Owner	Features	Tubes	
469	:::		box ID last (j)	😫 Common Box		100 of 74 🔟 ᅼ 🖉	.∂I <b>@I@</b> I <b>@</b> I∭
903	•••	1	Cell Lines_OS (i)	😫 Common Box	osteosarcoma cell line saos2	0 of 90  🍿 📑 🖉	≝୲≝୲⊴୲≞୲₪
627		3	tube tray (i)	😫 Common Box		20 of 96 前 📑 🥖	
							Delete All empty boxes oositions left on 8 possible positions
					Print all box maps	ename Drawer	Add new box in this drawer
				Full export:	to screen 🖹 🔿 to Excel/CSV	Do	

All settings from the original box will be predefined including the special grid format. You just need to give a new name and rack location. Whole box content can also be replicated as secondary storage using the

icon <sup>(1)</sup>. When clicking the replicate box icon you will be given a prompt to define some details about the name and storage information.

You can also export the storage to screen (in a new tab) or to excel/CSV(download the file).

### 6.1.9 Delete or clean a box

You have 2 options:-

- 1. The i icon gives you option to:
  - o Clean the box from associated records BUT without deleting the box or the records
  - Delete the box only + Delete the box with associated records





This action is definitive and cannot be reversed.

2. The  $\stackrel{\bigcirc}{=}$  icon gives you option to delete the box on empty box definition.



## A Warning

This action is definitive and cannot be reversed.

## 6.1.10 Manage storage for Reagents & Supplies module

To manage storage for this module, you have two options:

- Simple storage: these will be single locations without any sub-locations; and
- Main storage: to define in Admin  $\rightarrow$  Storage  $\rightarrow$  Manage storage.

For more details, refer to KB: manage storage for reagent & supplies module.

### 6.2 Managing storage equipment contents

At the equipment level, in *Tools*  $\rightarrow$  *Storage browser*, it is possible to perform a variety of actions.

#### Move drawers:

When drawers must be transferred to other equipment (in the case of equipment changes, failure, reorganization, etc.) you can manage it by selecting the target equipment in the drop-down list. Only compatible equipment will be listed.

You may need to create the new equipment prior to transfer. All drawer contents will be transferred. The drawers list is displayed for each piece of equipment. You can rename or delete them if needed.

Storage Brows     Tools/Storage Browser	er	Complete storage listing re All modules
Lab Storage Tree	Storage Browser & Manager      Notes :	23 Tubes ( 46.0 %)
<ul> <li>A BatimentG2</li> <li>A BatimentG4</li> <li>A BatimentG5</li> <li>A BatimentG6</li> </ul>	Positions per drawer / shelf / canister : Unlimited	ullness meter : Only Baxes with grid re considered on equipment with we defined capacities (n° of racks, etc.)
<ul> <li>G Batiment_GH_Renamed</li> <li>G Bayer</li> <li>G BCCRC 3rd Floor</li> <li>G Campol</li> <li>G gabor test</li> </ul>	Add QC Notification Add Notice to all samples stored in this equipment. Add Notice to all samples stored in this equipment.	Auto-Fill with racks only
<ul> <li>Ames test facility</li> <li>auto fill fridge</li> <li>Demo Shelf beta</li> <li>Freezer 1 -80</li> <li>James Demo Freezer 3</li> </ul>	Export All Content	]
James Demo Fridge     James Demo Shelf 3	Drawers Management	ent
JM_Rack_3A1 > Drawer_1 	Drawer_1     Rename     Select a receiving equipme       JM_Rack_3A1     Rename     Select a receiving equipme	nt 🗸 SUBMIT
Collapse all   Expand all	Note 1: If the new name/rof is empty, all the drawor's boxes will be put as floating.     Note 2: You can only move drawers to empty drawer spaces in other COMPATIBLE freezors/fridges/aquipment. Comple     Equipment with different drawer sizes is not listed either.	etely filled equipment is not listed

## 苯 Tips / Hints

You can also easily move racks/drawers (multiselect mode) between equipment by dragging and dropping them in the Lab Storage Tree, and move equipment to one facility to another.

Add notification to all samples stored in this equipment:



By clicking on this link this equipment, you can notify all samples stored in this equipment with specific information. For example, you can use this function to make a note that the storage equipment has failed, so samples stored in this equipment could be damaged.

The notification will appear on each sample record stored in this equipment. There is an option to have an email sent to the owner/operator of any items stored in the location.

QC: Add comment to all store	d samples
Notification text:	Freezer will be thawed on Monday
This is a comment that will be adde failure and the sample may be com	d to ALL stored samples and tubes. It can be used to notify that the equipment had a promised.
	Send email to owners
	Save QC Comment
	box with closed i
	2 Tubes 🌮
	A2, A3
	* Freezer will be thawed on
-	Monday Main Location > Autofill > Rack 1
	Owner: Admin

## 🚹 Note

The notification field is limited to 150 characters. Notifications are saved unless field is full.

New! Now you can sort the storage tree as you want by drag and drop items at any level!

# 7. Entering & Managing data

You have already defined your preferences; you are now ready to enter new records into the modules.

This can be done one by one or by using CSV files to import large amounts of data.

### 7.1 Enter a new record

All modules are constructed in a similar way. To add new records click on the top-right link "Add New

*Record*" in the menu bar New Record. A form will be displayed to enter data. The fields will vary based on the default fields for the module as well as any custom fields that may have been created. You can read in our Record.

Strains & Cells		ß	🕏 Share Options 👻	🖬 Save 🏾 🏕 Save & Add	× Cance
🗉 Record Data					
🛿 Storage Data	Project Code	Autocomplete Field			
	Optional Reference				
	Name •		3		
		NAL			
	Genotype				
	NCBI	Select Genus			
	Optional Unique Code		#		
	Comments				
		B I U S x₂ x² I x 2 = :=   4 = 4 =   Styles -   Format -   Font -   Size			

This example illustrates the form for entering new strains and cells. Required fields are marked with an asterisk \*. Additional tabs on the left hand side of the form reveal different forms for entering particular types of information.

Multiple records can be added successively with the Save & Add button.

Storage data is accessible with the tab on the left. Please see  $\prod_{section 7.3}$  for more information on storage.

Default field options can be activated or deactivated. Please refer to the  $\square$  section 5.1.

- Generally, when you open a module you see the page with no records. When you just click on 'Search' icon (empty search field), all the records will be displayed below.
- Records are the name of the samples, antibodies, chemical structures, reagents, and supplies, etc.
- Each record will have its own record ID, which will be used for barcode creation III. For example to barcode all samples in the lab.
  - \* Read in our KB: how to create barcodes in LabCollector.
- You can create a new record by clicking on the Wew Record button.
- You can edit the record by clicking on *V* icon.
- You can duplicate the record using this  $\Box$  icon.

• You can delete the record using this icon.

# A Warning

Take care as you cannot delete records that are in use in LabCollector. For example, if the sample is being used for some analysis then you will not be able to delete it.

- You can print the record using this <sup>2</sup>/<sub>2</sub> icon.
- You can also memorize the record using this lashippi icon, which can be used further in LabCollector.

## 🔔 Note

- Depending on the module the edit record options can change. For example, the Reagents & Supplies module have a purchase order icon in the edit option.
- Staff+, Staff, Users and Visitors can only memorize their own records, therefore the memorize icon will not appear for these user level permissions.

When viewing records, there are several icons on the left hand side as well as on the right hand side. The availability of these icons varies by module.

NEW! You can now see exactly which records were assigned to a storage and which ones were not, the

following icon  $\stackrel{\text{loc}}{=}$  will show up next to the record's name (in case it had a storage), which will help you avoid having to open up the record's content table to see whether it is stored or not. You can also choose whether you want to display the icon or not in any given module.

Records contain some of the following icons. Note that some icons are module specific.

The following icons can appear on the right hand side of a record:

Dpen record
Display record
Display all related records
Create a derived sample, Origin field automatically fills
Derive record
Analysis tab. Create analytics custom fields and find them here.
E Activity log
Display all secondary storage places
Display reagent & ordering info
Display lots

## **Order icons**

۲

Add to order list

In the order list

# Module dependent

\$

(Module Samples) Display process (Module Animals) **Display crossings** Ø Display comments (Module Plasmids/Sequences) Manage sequence annotations (Module Plasmids) Sequence and map (Module Documents/Reagents & Supplies/Samples/Antibodies) (Module Reagents & Supplies/Samples) Used in Stability Test Manager (Module Primers) Add to synthesis order n (Module Primers) 😽 Primer in the synthesis order list (Module Sequences) Display sequences and bioinformatics tools 🕥 (Module Sequences) Display sequence Blast tools GAT (Module Sequences) Display related files (Module chemical structure) Display spectrum (Module reagent & Supplies) Available/Few units/out of stock (Module reagent & Supplies) Display risk and safety data Link back to other data from Reagent & Supplies module. (Module Equipment) S Display maintenance (Module Equipment) Alert status: In maintenance/Out of service/Unavailable

## 7.1.1 Waiting data

When data is entered by users with "User" level it is flagged on the database as temporary. An alert is displayed on the homepage indicating that some data awaits validation by an administrator.

#### Open waiting list: Admin $\rightarrow$ Data $\rightarrow$ Waiting List

This page gives a list of records awaiting validation, organized by module. Each record can be marked for deletion (to be rejected) or manually edited. Validation is done per module in batch.

Admin/Data/Waiting L	ist (Approve, De	ələtə, Edit nəv	v date from users)								
Strains & Cells 78	Y) Chen	nical Structu	res								
Plasmids 62	Del? +	Valid +	Name	Ş	Formula	⇔	MW ≑	Form 🖨	Owner	⊲⊳	
Primers 1			Nocodazole		C14H11N3O3S		301.31		Wanda Wong		ßø
Reagents & Supplies 0			Phenolphthalein		C20H14O4		318.32		Wanda Wong		Q 🖉
Samples 132			Vitamin C		C6H8O6		176.12		Wanda Wong		& Ø

### 7.1.2 ELN, Workflow and LSM link

When data is referenced in the Electronic Lab Notebook, Workflow or Lab Service Management using the LabCollector data section, a direct link to the corresponding pages/experiments or Job is available under this tab.

ELN exp	eriments & pages:								
Project	Book		Experiment	Page	Aut	hor	Date U	pdated	Status
projectALS8	Camil/1		Experiment Camil Ă¼ 1	page_new	/_3 Wo	ında Wong	2020-1	0-22 18:21:10	OPEN
Test V	Book of AdminFullAccess_1		Experiment 2	Page 3	Ad	minFullAccess_1			CLOSED
Test V	Book of AdminFullAccess_1		Experiment 2	Page 7	Ad	minFullAccess_1			OPEN
	BOOK2 FOR TEST		Experiment 2	page	Wo	ında Wong			OPEN
	BOOK2 FOR TEST		Experience 3	Page1.2	Wo	ında Wong			APPROVED
	book ghalia 3		exp 1	Page 2	Wo	inda Wong			OPEN
	Book 4 of AdminFullAccess	J	Exp 1	Page 1.1	Ad	minFullAccess_1			APPROVED
ELN Work LSM	flow Job	Workflows: Name	Exp 1	Status Complete Complete	Progress 100% 100%	Start Date 2017-05-18 01:00:00 2017-05-24 01:00:00		End Date 0000-00-00 00 0000-00-00 00	.00:00
Work	flow Job test	Workflows: Name 46767MD		Status Complete Complete Complete	Progress 100%	Start Date 2017-05-18 01:00:00		0000-00-00 00	.00:00
Work	flow Job test 404 00	Workflows: Name 46767MD	Exp 1 vice Manager (LSM) Sam Sample	Status Complete Complete Complete	Progress 100% 100%	Start Date 2017-05-18 01:00:00 2017-05-24 01:00:00 2017-05-25 01:00:00	nber J	0000-00-00 00	.00:00

### 🕰 Note

Requires latest version of the add-ons and LabCollector 5.24 (ELN) or higher.

## 7.2 Animal management

The Animals module stores all the information about your animals: sex, age, genotype, genealogy tree, status, storage... Barcode tagging on cages or animals provides easy data retrieval.

You have three options in Animals module:

- 1. To add new animal records click on the top-right link **New Record**. A form will be displayed to enter data according to the module.
- 2. <sup>If Add New Crossing</sup> for adding a new crossing between animals. You can read more in our KB: <u>how to</u> manage animal crossing.
- 3. You now have now the cages options which allows you to schedule the cages for incoming animals and to access the cages facility plan.

	1. LabCollector	
	💩 Cages Options	▽
	🗎 Cages Scheduler	
	ি Cages facility Plan	
Note		

Before adding animals through the cage facility plan you need to define animal storage facilities through Admin  $\rightarrow$  Preferences  $\rightarrow$  Animals options. For more information, see the  $\square$  section 4.7.

The Cages Facility Plan allows you to see the cages in the respective room.

poms	🔶 🔶 🔶	lerie conventionnelle					
animalerie conventionnelle				Shelf 1	1		
m Shelf 2		Position 1	Position 2	Position 3	Position 4	Position 5	Position 6
m Shelf 3		Occupied	Occupied	Occupied	Occupied	Occupied	Occupied
Shelf 5	Row 1	Animal Records: 1 Total Animals: 0 (③ ++ ↔	Animal Records: 4 Total Animals: 16 (() (+) (+)	Animal Records: 2 Total Animals: 1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Animal Records: 2 Total Animals: 0 (() (+) (+)	Animal Records: 2 Total Animals: 1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Animal Records: 2 Total Animals: 2 (() (+) (+)
m Shelf 7 m Shelf 8		Available	Available	Available	Available	Available	Available
animalerie conventionnelle 2	Row 2						
<sup>1</sup> 2−45		① Add New Cage	⊕ Add New Cage	Add New Cage	⊕ Add New Cage	Add New Cage	① Add New Cage
Kirak Test		Available	Available	Available	Available	Available	Available
Birth	Row 3		()		()	(IIIII)	()
Experimentation		Add New Cage	Add New Cage	Add New Cage	Add New Cage	Add New Cage	Add New Cage
🗅 room test		Available	Available	Available	Available	Available	Available
Room 2	Row 4						()
Test Insert		Add New Cage	Add New Cage	Add New Cage	Add New Cage	Add New Cage	Add New Cage
Ghalia's Room		Available	Available	Available	Available	Available	Available
	Row 5					(A) Add New Cope	
ages With No Location		(+) Add New Code	(+) Add New Cone	(+) Add New Cone	(+) Add Now Coop	(+) Add Now Cooo	(+) Add New Cone

The occupation plan shows the number of animal records contained in each cage and the total number of animals and the free locations.

By clicking on , you can display all the records in the cage in a new browser tab.

Hovering the mouse over the number of animals will provide the animal listing for that cage.

Position 3	Position 4		Position 5	Position 6
Occupied	Occupied	0	ccupied	Occupied
Animal Listing	Animal Records: 2	Animal R	Pecords: 2	Animal Records: 2 Total Animals: 2
Name		Gender	Date Of Birth	Available
1629940855 NAME		Male -	- 2016-05-11	⊕ Add New Cage Available
Add New Cage	⊕ Add New Cage	1 bbA 🕀	New Cage	(+) Add New Cage

You can also easily move cages between rows, shelves and rooms by drag and drop. Clicking the <sup>th</sup> icon will memorize a selection of the animals in one cage and allow movement to any other cage. This can be useful for organizing or consolidating animals into a different group of cages.

To add a new animal record from this page or to add an existing record you can click the  $\bigcirc$ , which will show you the below pop-up.

#### 1. LabCollector

Animals	Position 3	
Create New Record	Add Existing Record	- a
<b>+</b>		1
		ic.
Add Rev	cord	

When a record location is defined, it can be removed from the cage. To remove it, click on the cross icon through the records file, a pop-up window appears to confirm cage removal.

The following view of the cage location appears when viewing the record in the Animals module:

9	SG8 Femo	lo I A	dminFullAccess_2	⇙↺◬ ◒⇙▥◨
	Creation Date	12-Oct-2012 11:24:17 (Last Update: 20-Feb-2020 12:01:59) Version: 3 (Q.View Version List)		Cage
Cz Ø	Optional Unique Code			Shelf: 3
çɔ	Description	Another Batch		Row: 3 Cage: 4
Ŷ	Genotype			Animals: 2
¢	Sex	QFemale .		
Ð	Age In Days	3006 Days		
Ó	Age In Weeks	429 Weeks		
P	Date of Birth	04-Sep-2012		

The following view shows the ability to edit or define an animal's cage from the popup that appears when editing or creating a record.

			керденть с заррнев матоннало штк 🖂
🗏 Record Data			
🖶 Cage Data 🚽	Room	Room 2 🗸	
	Shelf	2 ~	
	Row	2 🗸	
	Position	2 V Select Position Intaining animals)	
		1 2	
		3	Reagents & Supplies Automatic Link
			Number Of Record Repeats
			🖬 Save 🛛 🌧 Save & Add 🛛 🗙 Cancel

Also look at our video <u>Caonline</u>.

**New!** Now in the Animals module you have the possibility to search for animals filtering by Alive or Dead.

			_		UU	niapse sear	cn options -	•								
Name LIKE:	From Project:		Li	iving status:	A	Animal type i	s:	S	Status is:		Owned by:		From group:	c	Located in:	
			1	Any ~		Any Type	~	-	Any status	·	All contacts	~	Any group	~	Full search	~
Experimentator:	Date of experiment:	Date of I	birth	Any			Date of death	h:			Date arrival	t:				
All contacts 🗸 🗸		8		Alive		Ö					8				0	
Date created:	Date updated:			Dead	;			(	Genotype:		lot					
	Ö		_	🗎 🔿 Male	OF	Female 이	Unknown				LI	KE	~			

Moreover in the summary line of the records there is the option to show age in days or in weeks. To activate/deactivate this option go to ADMIN -> Default Fields -> Animals

Age In Summary Line	
	All
	All
Field Options	Age In Days
	Age In Weeks
Name	

## 7.2.1 Room Scheduler

Before using this application, you need to define animal storage facilities like room and shelf characteristics (Admin  $\rightarrow$  Preferences  $\rightarrow$  Animals options). For more information, see the QQ Section 4.7.

This application is completely independent of the cage's facility management. The room scheduler allows users to plan arrival of animals and to schedule cage locations, on the Animal Modules page.

💩 Cages Options	▽
🛱 Cages Scheduler	
ি Cages facility Plan	

You can access the Cages Scheduler from the cages options and pre-schedule your cage if you know when and how many animal are going to arrive in the near future.

- 1. You can select the "Rooms" from right top corner
- 2. Then select the reservation dates.
- 3. Once you have selected that you can go to "Add me to this scheduler" and your user name will be reflected in bright yellow, like in below image.
- 4. You can double click under the date you want to to add the number of animals that will arrive.
- 5. Down below you can see see the amount of places taken in the given cage at given date and the maximum slots available. Close the window when finished.

elect reservations	from	202	0-11-	27		to 2	020-	12-23	1	G	90	2																
User	27	28	29	30	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
anda Wong	0	0	0	0	0	0	0	4	0	0	0	0	0	0	۵,	0	0	0	0	0	7	0	0	0	0	0	0	
uentin Chartreux()	0	2	0	0	4	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	2	0	0	0	
dminGroup1_1()	0	1	0	0	0	0	0	2	0	0	0	0	7	0	0	<b>4</b> o)	0	0	4	0	0	0	0	0	0	0	0	
Taken	0	3	0	0	4	0	0	6	0	0	0	0	10	0	5	0	0	0	4	0	7	0	0	2	0	0	0	A
Max available	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	5
Max available	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	

## A Note

Taken = number of locations already reserved Max Available = total number of locations

## 7.3 Storage stock

You can create stocks of lab supplies and chemicals using LabCollector. See  $\blacksquare$  section 6 to see more on how to configure storage.

## 7.3.1 Define storage at data entry time

You can assign storage tubes or vials when creating a new record. (Storage may also be defined or updated for existing records.) On the new record form, in the Storage Data tab, you can select the location with the drop-down menus. Then indicate vial coordinates on the storage selector by clicking the box to the right of 'Position in Box'.

Below example image is from the Plasmid module  $\rightarrow$  New/edit Record  $\rightarrow$  Storage Data

Plasmids							<b>ଝ</b> Sho	are Options	•	Save 🏾 🏞 Save & Add	×C	ancel
New Record										Number Of Record Rep	eats	
										Reagents & Supplies Auto	omatic l	Link
🗉 Record Data												
🕻 Sequence & Map		Stora	ge Locati	on Mai	n >>> Auto	ofill (-80°C	:)	~		(?)		
🛿 Storage Data				Box: E								
					More Availa							
			в	oq) xo	s: 1) Box 1	(Wanda V	Vona)	~				
			-				<u>,</u>					
		Po	sition in B	ox 📆	A3,A4,							
	Storage	Comment	s and Col	lor								
				Cop	insert color	for the set	Paren PBI	ЛС	<b>~</b>			
			Volun	ne 0.5		nL						
			volun	0.5		nL						
	Minimum	quantity	of tubes f									
		Even	ale		_00_12		ė					
		Ехр	iration Do	2021	-08-13		Ē					
	Days befo	re expirat	ion for ale	ert 2								
										Reagents & Supplies Auto		Link
										Save 🔊 Save & Add	_	neel
										Suve 1 - Suve & Add	~ 00	Incer
	Box View		<i>.</i>				🖨 Pi					
1	2	3	4	5	6	7	8	9	10	) III III III III III III III III III I		
A 480_R										10		
Al	1 A2 2	A3 3	A4 4	AS 5	A6 6	A7 7	AB E	A9 9	A10	10		
B Plasmi	d 1 Plasmid 1	Plasmid 1	Plasmid 1									
81	11 82 12	83 13	84 14	85 15	B6 16	87 17	88 18	89 19	B10	20		
C Plasmi	d 1 Plasmid 1	Plasmid 1	Plasmid 1									
C1	21 C2 22	C3 23	C4 24	C5 25	C6 26	C7 27	CB 28	C9 29	C10	30		
D Plasmi	d 1 Plasmid 1	Plasmid 1	Plasmid 1									
D1	31 D2 32	D3 33	D4 34	D5 35	D6 36	07 37	D8 38	D9 39	D10	40		
E Plasmi	d 1 Plasmid 1	Plasmid 1	Plasmid 1									
El	41 E2 42	E3 43	E4 44	ES 45	E6 46	E7 47	E8 48	E9 49	E10	50		
F Plasmi	d 1 Plasmid 1	Plasmid 1	Plasmid 1									
F1	51 F2 52	F3 53	F4 54	FS 55	F6 56	F7 57	F8 58	F9 59	F10	60		
G Plasmi	d 1 Plasmid 1	Plasmid 1	Plasmid 1									
G1	61 G2 62	G3 63	G4 64	G5 65	G6 66	G7 67	G8 68	G9 69	G10	70		
H Plasmi	d 1 Plasmid 1	Plasmid 1	Plasmid 1									
ні	71 H2 72	H3 73	H4 74	H5 75	H6 76	H7 77	H8 78	H9 79	H10	80		
1	d 1 Plasmid 1											
11	81 12 82	13 83	14 84	15 85	16 86	17 87	18 88	8 19 89	110	90		
-	d 1 Plasmid 1											
31	91 J2 92	J3 93	34 94			37 97	J8 98	19 99	J10	100		
				1213	: Box 1							

Generic steps for assigning tubes/vials:

- $\circ$   $\,$  Select the location.
- Select a box from the resulting list.
- Fill the box grid or visotube on the interactive map (open the map by clicking the grid icon).

Newly selected positions appear green. Slots already taken will have the record name indicated.

- Close the interactive pop-up map window by clicking on the Accept button. Click Close this window or click the X in the top corner to avoid adding the storage.
- Indicate an optional commentary on this particular storage.
- Define a cap insert color for the tube (before using this function you need to define cap insert colors through Admin  $\rightarrow$  Storage  $\rightarrow$  Manage storage  $\rightarrow$  Options).
- Indicate a volume. Only in mL for the moment.
- Save the record or the storage by clicking update/save.

## A Note

You can have a general view of empty and available box spaces with the storage browser. A direct link is available by clicking "Locate Available Places".

The total stock corresponds to tubes in main and secondary storage.

I	Box details	Storage editio	on Storage deletion
Sto	rage		
RACK01.B-2	Worms_CO1	0/X	
3 Tubes (2 mL)	6 Tubes (2 mL)	🔁 T	ube deletion
A1, A2, A3	A2, A3, A4, A5, A6, A7	B	ox map
Main Location > Congel_1 > RACK01	Freeze House > Freeze	er D Lab51 >	
	Owner: Anne-Laure Sa	uvadet	
Worms_CO1	Worms_CO1	0 / X	
1 Tube (2 mL)	1 Tube (2 mL)	Θ	
B2	B3		
Freeze House > Freezer D Lab51 >	Freeze House > Freeze	er D Lab51 >	
Owner: Anne-Laure Sauvadet	Owner: Anne-Laure Sa	uvadet	
Worms_CO1	Worms_CO1	0 / X	
1 Tube (2 mL)	1 Tube (2 mL)	Θ	
B4	B5		
Freeze House > Freezer D Lab51 >	Freeze House > Freeze	er D Lab51 >	
Owner: Anne-Laure Sauvadet	Owner: Anne-Laure Sa	uvadet	
	k: 27 Tubes		
All Secondary Places	Add Secondary	Storage	

### 7.3.2 Define storage on existing record

There are two ways to assign vial storage on existing records:

#### A. Through record display:

You can define a storage place directly from the record entry in a module: \*Below is an example image from a module where the record has no defined storage position.

#### 1. LabCollector

<b>6</b> 838	322698064	Bacterial Wanda Wong	1 4 🕯 🖗 💷 🖼
Q	Project Code	Test new project code (ID: 5)	Storage
₿ ¢	Creation Date	09-Nov-2020 10:49:09   Version: 1 (Q. Viow Version List)	No Primary Storage
*	Optional Unique Code		~
¢.	Sample Type	Bactorial	
	Origin		Add Main Storage
1	Organism		
Ôb	Main Operator	WW Wanda Wong	Total Stock: No Stock
0		AgileBio	Add Secondary Storage
≯⊄ ∦≣	Comments & Description	Coronaviruses are a group of related RNA viruses that cause diseases in mammals and birds. In humans and bird s, they cause respiratory tract infections that can range from mild to lethal. Mild illnesses in humans include some cases of the common cold (which is also caused by other viruses, predominantly rhinoviruses), while more lethal	

- Search for the record you want to manage in the module.
- Expand the record data by clicking on the name or the magnifying glass icon near the record name.
- On the right, a storage table is provided.
- Click on the "Add main storage" link if available (only admins, the super-admin and the record owners can add main storage).

Follow generic steps for assigning tubes/vials:

- 1. Select the location.
- 2. Select a box from the resulting list.
- 3. Fill the box grid or visotube on the interactive map (open the map by clicking the grid icon).
- 4. Close the interactive pop-up map window by clicking on the "Keep selection..." button.
- 5. Indicate an optional commentary on this particular storage. The comment will appear in the storage information when viewing the record and will also be visible when looking at the storage location in the storage browser.
- 6. Define a cap insert color for the tube (before using this function you need to define cap insert colors through *Admin* > *Storage* > *Manage storage* > *Options*)
- 7. Save the main storage by clicking the Add Main Storage button.

#### B. Items may be added through the storage browser

- 1. Find the desired box in the storage browser.
- 2. Then click to select one or more slots by dragging the mouse hand.
- 3. When done, click on Add tube.
- 4. A pop-up will open and you can select the record to add by typing the ID or scanning a barcode and click on Next.
- 5. Another pop-up will open, from where, you can also define a tube position as secondary storage by checking the box. Additionally, a cap color can be selected. Before using cap insert color options you need to define them through the storage system options: Admin → Storage → Manage Storage → Options.



\Lambda Note		
icon when viewing records. The b	rent. The ID number is found at the far left parcode also includes the module identifie icon when viewing a record. See the belo	r code and can be checked
		Barcode
Bacterial	Wanda Wo ng	

## 7.3.3 Secondary Storage

Each record can have one main storage place. But any lab member can have their own backup or secondary storage locations that are different from the record owner.

There are two ways to define a secondary storage:

#### Through modules:

- Search for the record.
- Expand the record data by clicking on the record name.
- On the right, follow "Add storage" link.



• Follow steps as described for main storage above.

To display all storage boxes, click on "All secondary places".

10	Sodium ac	etate	Insert WF	reag	jonts					136 Tubes	▣₽∥₫	≜ <b>∂</b> 0[
a	🛃 All Storage an	d Aliquots						Total Stock:	136 Tubes 🖽 V	iew In List Format	😅 Add Seconda	ry Storage  🖨
<b>B</b>	Ligands for Cat	i∕∕×	Ligands for Cat	i∕∕×	Ligands for Cat	i∕∕×	Ligands for Cat	i∕×	Ligands for Cat.	i∕∕×	Ligands for Cat	i 🖉 🗙
T	1 Tube	P	1 Tubo	P	1 Tube	P	1 Tube	P	1 Tube	P	1 Tube	P
5	Al	⊞	A2	<b>==</b>	A3	<b>=</b>	A4	E	A5	<b>=</b>	A6	E
Ð												
Ē	ROOM B > Inorganic Se Catalysts > 3	alt Box >	ROOM B > Inorganic S Catalysts > 3	alt Box >	ROOM B > Inorganic Catalysts > 3	Salt Box >	ROOM B > Inorganic S Catalysts > 3	ialt Box >	ROOM B > Inorgan Catalysts > 3	nic Salt Box >	ROOM B > Inorganic Catalysts > 3	Salt Box >
⋧	Owner: Sarah		Owner: Sarah		Owner: Sarah		Owner: Sarah		Owner: Sarah		Owner: Sarah	
88	Ligands for Cat	i∕∕×	Ligands for Cat	i∕∕×	Ligands for Cat	i∕∕×	Ligands for Cat	i∕∕×	Ligands for Cat	i∕∕×	Ligands for Cat	i∕∕×
	1 Tube	P	1 Tube	P	1Tube	P	1 Tube	P	1Tube	P	1 Tube	P
	A7	⊞	A8	<b>=</b>	B1		B2	⊞	B3	<b>=</b>	B4	
	ROOM B > Inorganic Se Catalysts > 3	alt Box >	ROOM B > Inorganic S Catalysts > 3	alt Box >	ROOM B > Inorganic Catalysts > 3	Salt Box >	ROOM B > Inorganic S Catalysts > 3	alt Box >	ROOM B > Inorgar Catalysts > 3	nic Salt Box >	ROOM B > Inorganic Catalysts > 3	Salt Box >
	Owner: Sarah		Owner: Sarah		Owner: Sarah		Owner: Sarah		Owner: Sarah		Owner: Sarah	
	Ligands for Cat	i∕∕×	Ligands for Cat	i∕∕×	Ligands for Cat	i∕∕×	Ligands for Cat	i∕∕×	Ligands for Cat	i∕∕×	Ligands for Cat	i∕∕×
	1 Tube	P	1Tube	P	1 Tube	P	1 Tube	P	1 Tube	P	1 Tube	P
	85	⊞	86	<b>=</b>	B7	E	88	⊞	СІ	<b>=</b>	C2	<b>=</b>
	ROOM B > Inorganic Se Catalysts > 3	alt Box >	ROOM B > Inorganic S Catalysts > 3	alt Box >	ROOM B > Inorganic Catalysts > 3	Salt Box >	ROOM B > Inorganic S Catalysts > 3	alt Box >	ROOM B > Inorgar Catalysts > 3	nic Salt Box >	ROOM B > Inorganic Catalysts > 3	Salt Box >
	Owner: Sarah		Owner: Sarah		Owner: Sarah		Owner: Sarah		Owner: Sarah		Owner: Sarah	

Any main or secondary storage can be edited and deleted. Use the <u>specific icons</u> (this can only be done by administrators and the record owner).

To edit via the storage browser see  $\square$  section 6.1.4.

A pop-up will open and you can add a tube in storage easily by entering its ID or scanning a barcode. Through this pop-up, you can also define a tube position as secondary storage by checking the box. See  $\square$ <u>section</u>

## <u>7.3.2.</u>

## 7.4 Removing & adding aliquots, tubes or main storage

Every lab deals with numerous supplies and reagents which you need to aliquot or store.

With LabCollector you can add, remove aliquots tubes or main storage.

## 7.4.1 Aliquots management

To manage aliquots, you can use the secondary storage system:

- Click on the "Add storage" link as described above (see <u>section 7.3.3</u>)
- Once the storage place, box and box position is selected, check the "Make independent" box. (storage options will only appear when you select the storage place and box)

Storage Managem	ent for SDS2 (Reagents & Supplies)
ADD Complementary	Storage ?
	Main >>> Autofill (-80°C)
Select Storage Place: (Locate empty places)	Box: Box 2 Available Position: A5 Locate More Available Places
Select Box:	(pos: 1) Box 1 (Wanda Wong) 🔹 🗸
Position in Box:	A1,A2,
Stock Contact/owner	• Admin
Comments	
Storage options	
Make independent	Check to make each position as independent storage (e.g. aliquots)
Volume / Quantity	: 1 mL
Optional Unique Code (e.g. 2D code on tube bottom, existing barcode)	
Cap insert color for the set	no color 🗸
	Add Secondary Storage

This option allows the independent management of each tube which will be assigned its own editable barcode and can, in addition, have an existing barcode associated to the tube. The unique identifier/barcode and any additional information can be seen when viewing the storage details.

<u></u>	Location	Equipment	Box name		Box rack pos	Tube pos	Uniqu	le Code	Vol	Owner	Comm	nents	0		
T	ROOM B	Cupboard Lab 545.A2	Reagent shelf	f	Rack: Shelf DOWN		① Add Code	Unique		Wanda Wong					i 🖉
5	Main Storage	Autofill	Box 1	6	Rack: Rack 1/1	Al	⊕ Add Code	Unique	1 mL	Admin				0	i 🖉
Ð	Main Storage	Autofill	Box 1	6	Rack: Rack 1/1	A2	⊕ Add Code	Unique	1 mL	Admin				0	i 🖉

## 7.4.2 Storage Check-in/out System

In the lab, we know how samples can go on a little journey for experiments. LabCollector's Storage Check-In/Check-Out is like a helper to make sure everyone knows where things are, especially when something is borrowed for a while.

Imagine a researcher takes some samples out for an experiment. Now, they're not in the storage, and someone else might get confused looking for them. This is where our new tool intervenes to help organize your lab storage even better!

### Note

Please note that this feature is only available starting from LabCollector v6.21, checkout our <u>blog post</u> to read about all the other exciting features included in this version.

If you want to update your current version, read the following knowledge base on <u>how to upgrade your</u> <u>LabCollector</u>.

See the video of our KB: <u>Storage Check-in/out System</u> for a detailed review on how the check-in/out system works.

First of all, in order to check-in/out a tube, you should navigate to the desired record, then click on the storage icon and finally select the "Minus tube" icon located on the top right corner of the corresponding tube (as shown in the screenshot below).

<b>7</b> 368	<sup>349</sup> 201953270-6
ඛ	🛃 All Storage and Aliquots
😪	7000836189 i 🖉 🗙
द्धे	1 Tube (0.01 mL)
	• F9 🗰 🌄
\$> -] <}	( U <sup>-</sup> )
Q	8072531815
Ē	Dragon Lab > Dragon Cage > A > 5A
ค	Owner: Wanda Wong
P	
-	
<del>کر</del>	
69	
FQ	
1	

When you click on the "Minus tube" icon, a pop-up appears (see screenshot below). Here's what you can do to enhance your lab management:

- Select Volume:
  - Choose the exact volume you want to remove.
- Add Comments:
  - $\circ$   $\;$  Document essential notes related to the tube.
- Derive from Volume:
  - If needed, derive from the existing volume for further experimentation or analysis.
- Transfer to Another Module:
  - Easily transfer the tube to another module, where it's needed.

1. LabCollecto	r
----------------	---

emove	/move tubes ar										
	201	953269-8 (Sam	ples)								
	🕑 Volume Remov	ed:									
		mL 🗌 Thaw	count: +1	00!							
	Optional Action:										
	Select the action	type		~							
	Comment:										
	Derive from vo	<b>lume</b> (optional)									
	Optional name suffix:										
	Module to:	Select Mo	dule	~							
	Note	: Do not use co	mmas								
		or									
		Tube Options	6								
	Take Tube	Remove Tube	Position	Move							
			H7	P(3	3						
	Optional Ac	etion:									
	Select the	action type		~							
	Comment:										
				2							

In the same pop-up, you'll find a handy table with several options (please refer to the numbers in the screenshot above):

- 1. Take Tube for Check-Out:
  - Opt to take the tube for check-out, signaling its temporary absence for experimentation.
- 2. Remove Tube from Storage:
  - Remove the tube from its current storage spot.
- 3. Move Tube to Another Storage Location:
  - Relocate the tube to a different storage location.

### 1. Search Function:

You have the option to search for all the records with tubes that are in/out of usage and are currently not in storage. To do so, simply follow the below steps:

- 1. Navigate to Your Desired Module:
  - Head to the module you want to explore, whether it's Samples, Primers, Strains, or another.
- 2. Expand Search Options:
  - Look for the "Expand search options" button. It allows you to have more search capabilities.
- 3. Select Your Search Criteria:
  - Tick the box that says "Show tubes currently in/out of usage and not in storage."
- 4. Hit That Search Button:

• Click on the search button, and let LabCollector unveil the details.

Samples		
Modules / Samples	Search by: Keyward Process ID D	New Record     Satch Process Address Addr
	Operator: AND V Statur: Active V Sort results by: Id V DESC V V Strict search	
Name LKE All n Project Sample type is: Any type Date With process	Collopse search options &         From organism:         Main Owner:         Secondary Owner::         From group:         Storage comment LIKE:         Date created:           v         Any Organism:         All contacts:         V         All Contacts:         Any group:         Storage comment LIKE:         Date created:	0
Searc None selected - Select Status	)	

### 2. Tube Status Message:

You will also see a message under the tube options' table, this tells you that the tube you picked is currently on duty, being used somewhere in the lab, and it's not in its usual storage slot.

No need to dig deep, the message gives you a quick snapshot, and would help you decide whether to wait for the tube's return or look for an alternative.

Optional name suf	fix:		
Module to:	Select Mo	dule	~
Note	: Do not use co	mmas	
	or		
	Tube Option	S	
Take Tube	Remove Tube	Position	Mov
$\checkmark$		A9	P
This tube is out/in	usage and cur	rently not in	stora
Optional Ac			stora

#### 3. Color Cues in the Grid Viewer:

LabCollector not only tells you but shows you with a subtle yet effective visual cue about the status of a tube. Here's the breakdown:

- Navigate to Storage Browser:
  - Open up the grid viewer to see a comprehensive layout of your tubes.
- Check for Color Variations:
  - Tubes that are currently not in storage but in/out of usage will stand out with grey strips across, this indicates that they are either being used or has been taken out for an experiment.

Instantly spot tubes that are actively involved in lab activities, and easily distinguish between them and those in storage, facilitating your decision-making.

		Во	x Vie	w	List	t Viev	v													/		🖨 P	rint	
	t	1	1	2		3		4	5	5	6	5	7		8	9		10	)	11	L	1	2	
A	(ra samp A1		A2	2	tes	iinjcm t for hission 3	reco	rail	tes recor A5	d auit ail		ail	tes r record A7	d auit iil	tes new record auit A8 8	(can A9	20	A10	10	A11	11	A12	12	h
в	9531 9531	9		1204 9 14		11204 9 15		11204 9 16	9531 85	1204 9 17	B6	18	B7	A		can	an	1			23	B12	24	
С	C1	25	C2	26	C3	27	C4	28	C5	29	C6	30	C7		lodule: \$ ): 36808	SP	9P				35	C12	36	
D															escripti									

### 7.4.3 Removing tubes

When a storage location is defined, single tubes, vials or aliquots can be removed or added. Any identified user can remove tubes.

The action is logged on the history or the activity log registry for strain records.

To remove one or more tubes, a quick icon is provided <sup>P</sup>. When you click on it, a pop-up appears:

Remove/move tubes c				tubes		
Remove mic	cropl	at storag	e (Reag	ents & S	Supplies	s)
	+	Position	Move			
		A4	P			
		E1	P			
		E2	P			
		E3	P			
		E4	P			
		E5	P			
		F1	P			
		F2	P			
		F3	P			
		F4	P			
		F5	P			
Remo	ve s	elected	l posit	on(s)		

Here, you can select one or more tubes to remove from the box. You can display the box map using to help you to visualize the tubes to be removed.

### 7.4.4 Volume deduction

An automatic remove volume option can be used if tube volumes quantities are defined.

## A Note

To remove volume your tube should have only 1 per position or storage. If you have more than 1 tube , the volume option wont be seen.

	-		-		<ul> <li>I</li> </ul>
<b>6</b> 52	2	RPMI 164	40		
۵		Stora	ge ar	nd A	liquots
<b>B</b>	John's	s box á		l	]∕∕×
T	1 Tubo	9 (9 mL)			ÞP
5	Al				Ħ
Ð					
	Bayer ábc	> tost friç	go > Jo	hn's ro	ack123
P	Owno	r: Admin			

To use this option, you have to click on the remove tube icon  $\mathbb{P}$ . You have then to fill in the form:

 Indicate the volume to remove. here you can also click on thaw count. This is to ensure for the chemicals or regents that get affected by continuously Freeze-thaw cycles. Checking the box will ensure to keep a count of thaw cycle. This will allow you to discard the constituent that has gone through many free-thaw cycles. If you check this box you will see the thaw icon like below image.



## 🚹 Note

If you have decimals, please DO NOT USE commas.

- 2. You can choose an action relative to your deduction
- 3. You can create a derive record based on this volume. A link will be create between both records.
- 4. Click on Do! to validate.

Remove/move tubes and volume
RPMI 1640 (Reagents & Supplies)
P Volume Removed:
1 mL Thaw count: +1 4
2 Optional Action: Storage Action 1
3 Derive from volume (optional)
Optional name suffix: SIRNA-
Module to: Reagents & Supplies 🗸
Note: Do not use commas
or
Remove The Tube:
Position Move
A1 5
Remove Tube

All the information is then summarized in the activity log of the record.

۵	E Act	ivity Log			
R	Date	Action	Operator		Comments
LK	2020-12-01		Wanda Wong	0	<sup>0</sup> DERIVED into new record from A4 taken 1 mL TO (ST - 7442
Ŷ	2020-12-01		Wanda Wong	Ø	pTube volume removed (sec.) [for Storage Action 1] KC-BN 009 : A4 = 1 mL
¢	2020-12-01		Wanda Wong	0	pEdited secondary storage (6473) in KC-BN-009.   REMOVE 1 Tubes: A5,
	2020-11-16		Wanda Wona	1	BOX KC-BN-009 (ID: 200) MOVED TO Floating On Room no

Activity log option is present only in some modules.

## 7.4.5 Move tube

Note

Tubes can be moved from one position to another or from one position to many positions by using the same

icon  $\mathbf{b}$ . The popup offers you the option of moving the tube by clicking on  $\mathbf{b}$ . Then, as before, fill out the storage form then click on *Move*.

6	Extraction Buffer B B)	EB pr0001 Buffers	3 Tubes 👂 🍹
۵	Project Code	pr0001 (ID: 2)	Storag
3	Creation Date	15-May-2012 14:14:05 (Last Update: 02-Oct-2020 17:19:38)	i∕∕×
B		Version: 8 (Q View Version List) 2 Tubes	P
9	Comments & Description	Per 100 mL: A1, B1	₿₿
1		100mM Tris-HCI (pH 8.0) (Use 1M stock) 10ml	
3		50mM EDTA (Use 0.5M stock) 2.5ml Room no g Salzburg	group > Brease A >
P		100mM NaCl 0.6g Owner: AL	.58
		Extraction Buffer B (EBB) (Reagents Move Tube(s) From A1 To: Select Storage Place ? Main >>> AUTOFREEZER (-80°C) Select Box	•
		210 (Wanda Wong)	~
		Position in Box 📇 A1,B1	
		Stock Contact/owner	~
		• Admin	<b>~</b>
		Move	

### 7.4.6 Remove multiple sample's main storage with the worklist tool

In LabCollector, you can now remove a list of samples from storage at once using worklist (for more information about this tool, refer to section 10.5).

This function is available for all modules.

2

- 1. Go to the relevant module to select samples that you need to remove for storage by using the memorized record tool
- 2. Go to Tools  $\rightarrow$  Manage memorized items.
- 3. Select records that you need to remove from the storage by checking the corresponding box.
- 4. Generate a worklist (for more information about this tool, refer to  $\square$  section 10.5)

5. Now click on the "Remove all from storage" button. A pop-up opens to inform you this action cannot be undone and to choose main storage or secondary storage.

Your sample's storage is now removed. The removal of tubes from storage will be saved as an action in the audit trail/user history log.

### 7.4.7 Adding new tubes/vials

To add ne	w tubes	to the	box, use the	edit ic	on on the	box ta	able. I	Newly added	tubes	will be	saved as an
action	on	the	activity	registry	log	if	it	exists	in	the	module.

extraction Buffer B	EB pr0001 Buffors		3 Tubes	▣₽₽₽₽
Project Code	pr0001 (ID: 2)		1	Storage
Creation Date	15-May-2012 14:14:05 (Last Update: 02-Oct-2020 17:19:38)	boxALS8	iØ	×
	Version: 8 (Q View Version List)	2 Tubes		P
Comments & Description	Per 100 mL:	A1, B1		<b>##</b>
	100mM Tris-HCI (pH 8.0) (Use 1M stock) 10ml			
	50mM EDTA (Use 0.5M stock) 2.5ml	Room no gro Salzburg	oup > Brease A >	
	100mM NaCl 0.6g	Owner: ALS8		
		rage	Salzburg boxALS8 - 20°C	
	Comments:	nperature:		

## 7.5 Edit, archive and delete records

Once records have been added to the database, you can edit, archive, set up as read-only or delete these records. When a record list is displayed in a module, each one is associated with the edit ( $\checkmark$ ), archive/read-only ( $\stackrel{(\bigtriangleup)}{\longrightarrow}$ ) and delete ( $\stackrel{(\blacksquare)}{\square}$ ) icons. They are only accessible to administrators and data owners.

### A Note

Data deletion has limitations. The "delete" icon will only be accessible if the record has no storage assignments and no links to other records. You will have to remove the links and the storage prior to record deletion. Deleting a record is not possible if more than 5 actions have been performed with the record. Information about the deleted record is retained in the audit trail.

Archive Options
V Archive/Hide Record
The record will not be shown in search results unless it's clearly indicated in the search parameters. Modification will not be authorized in archived records. This action can be reverted in the archived/hidden record.
Reason To Archive
Read Only (Terminate Record Modification)
The record will be shown in search results like any other record but any kind of modification will not be authorized.
Confirm Cancel

Archive/Hide Record. The record will not be shown in search results unless it's clearly indicated in the search parameters (see below). Modification will not be authorized in archived records; records can only be duplicated, printed or memorized. This action can be reverted in the archived/hidden record. Records with storage cannot be archived.

#### 1. LabCollector

Reagents & Supplier	S Search by: Keyword Lot ID ID
Modules / Reagents & Suppli	Clear 🛃 🏦
Operator: AND 🗸 Status: Active	✓ Sort results by: Id ✓ DESC ✓ Strict search
Active Read-o	nly Expand search options
Archive	d
444 results found   ① Show/Hide all record All	

Read-only Record. Only available with the Compliancy Pack. The record will be shown in search results like any other record but any kind of modification will not be authorized. This action is irreversible and so the record will always stay in the current version.

Only the super-administrator can reverse this action, indicating a reason that will be available in the audit trail.

Records can only be duplicated, printed or memorized; the storage is always active (storage creation, modification and deletion are possible).

Locked records can also be signed. Signatures will be shown in the version list. They guarantee the integrity of the data.

Locked and signed records can be archived if you click on the lock icon.

	\$	N	lame		- \$	Project	t Co	Category	\$	resell_price	\$	Decimal Test	Test Autoco
1	•	•	RIPA b	uffer		Insert V	VF	Buffers					& test_autoco mplete
à					Pro	ject Co	ode	Insert WF (I	D: 6)				
3					Crec	ition D	ate			:30 (Last Up ew Version		: 15-Sep-2020 1	7:08:53)
ሻዋ								Version: 85		ew version	list)		
	/ersio	n Lis	st					Version: 85			.151)		
©۷	/ersion			Recorded	Ву			Version: 85		Modification		on	Signed By
©۷	sion Nu			Recorded	,	da Wong	(2020-	-09-15 18:08:53)		Modification	Reas	on y record #2	Signed By
٥v	sion Nu	imbe		Recorded	Wand	· ·				Modification	Reas	record #2	Signed By

For more information, please read the **KB**: on what is compliance pack

### 7.5.1 Multiple record archives

You can archive multiple selected records at once using a memorized worklist (for more information about this tool, refer to <u>Section 10.5</u>). This function is available for all modules.

- 1. Go to the relevant module(s) to select records that you need to archive by using the memorize record icon
- 2. Go to Tools  $\rightarrow$  Manage memorized items.
- 3. Select records that you need to archive by checking the corresponding box.
- 4. Generate a worklist (for more information about this tool, refer to QQ Section 10.5.
- 5. Click on the "Archive all records" button. A pop-up opens to inform you that all records will be set as archived.

Your records are now archived. Archived records will not appear unless specifically requested.

### 7.5.2 Multiple record deletions

You can delete several records at once by two distinct methods. Both are only accessible to administrator

#### and super-administrator.

#### Delete record sets:

You can delete record ranges from inside a module. Go to: Admin  $\rightarrow$  Data  $\rightarrow$  Delete Multiple Records.



Enter the first and last record numbers from the range to delete and choose the module containing those records.

## A Note

Check "reset ID" if you want to reset ID to the first value.

Range Data deletion has limitations. The records within the selected range will only be deleted if the record has no storage assignments and no links to other records. You'll have to remove the links and the storage prior to record deletion.

Delete multiple discrete records from multiple modules:

Use the module search engine to find records to delete. Use the memorized record icon  $\leq$  to memorize all records you want to delete. Once done, go to *Tools*  $\rightarrow$  *Manage memorized items* (for more information about this tool, refer to  $\square$  section 10.5)

On this screen you can check/confirm the records to delete. You then have to choose the "*Delete from Database*" option.

## A Note

Multiple Data deletion has limitations. The memorized records will only be deleted if the record has no storage assignments and no links to other records. You'll have to remove the links and the storage previously to record deletion.

### 7.5.3 Data transfer between users

There are situations where lab members move into or out of the team. Data managed by such users can therefore be migrated or transferred to other current users. All data from all modules can be reassigned to another single user or selected modules can be indicated and be assigned to different users.

Go to: Admin → Data → Transfer data.

1. LabCollector

₹ Transfer Options	
	옥수온
You are about to transfer data from one user to another. You can transfer all data or data from sp This transfer can be useful when people leave the lab and their data needs to be managed by anc	
귿 Transfer Data	
This action is definitive and cannot be reversed (be sure you have a recent database backup)	
Fro	m ALL modules
	Or
Samples	Cells
From user	⊂> To user
Admin -	Wanda Wong •
Include archived records	
Include locked records	
Click here to	TRANSFER records

## 7.6 Barcodes editing

All data and records saved in LabCollector have a unique barcode. All of them can be edited and printed.

### 7.6.1 Barcodes types

LabCollector edits two barcode types:

 <u>Linear or 1D barcodes</u>: These are classic barcodes. They are read from any CCD or laser barcode reader (plus many smartphones). 1D barcodes can be large so they only can be placed on sufficiently sized surfaces. The large size may also accommodate the inclusion of the record name and/or free text. Eppendorf and cryo tubes may be too small.



<u>DataMatrix or 2D barcodes</u>: 2D barcode are small and square. They are newer and can only be read by
more sophisticated imaging devices (including some smartphones). They hold more information and are
usually sufficiently small to be placed on tube caps for example. These can be printed as barcode only,
or with additional information.

1/FS
2/FS
3/FS
4/FS
SIFS
6/FS

# 7.6.2 Single barcode label printing

Printing varies slightly depending on your printer. The printer may need to be set up by the super-admin and/or local IT staff depending on the model. According to your printer system, to edit and print a single barcode label you can:

Click on	Click on 団
A new window opens with different barcode printing choices.	A pop-up opens for the direct print mode application on EPL or JSCRIPT capable printers.
1 🔁 PDF go	To install it: Admin $\rightarrow$ Setup $\rightarrow$ Label network
Select Label Template Select 👻 🗸 🍵	printers.
FIRST COLUMN	A new window is opened.
○ Image: A symbology	
normal size     reduced size	Choose label options
Nbr copies 1 Add sub-number (ex: 1/5, 2/5.)	Add free text: + Select f
ID font size 5 1 Line height Separator // v 0 Margin top	
	No Barcode
Options for the label	
Add Name to labet:	Nbr copies 1 Add sub-r
No barcodo     O ID     O 20	Use unique code inste
Nbr copies 1	Labels: THT-249-492-1.5-SC 💙 Prin
Add sub-number (ex. 1/5.2/5)	Labels: THT-249-492-1.5-SC V Prin
Labols: Brady1x0.5 V Choose Printer: BBPII V	Submit
For direct Zebra EPL printing 1 Validate options	
Hint: On the browser, edit Page layout to set all margins to 0 and remove head	Here you can add free text, add the text of a select
Number: Record Ref / Madula (ST. Strains; PI: Plasmids; PR: Primars; SQ: Sequences; CH: Chamicals &	field and choose your barcode and labels roll
1: You can generate a PDF for your label, by	types (defined in Admin $\rightarrow$ Setup $\rightarrow$ Label network
using the "PDF generic label printing" option, you	printers).
can select your label type and template, choose	You can print labels with no barcode.
whether you want a 1D or 2D symbology, select	You can change the barcode size for a better
the line height and margin top you require, the	output.
number of copies you want to print, then click on	
the button "Print PDF" located in the top right	
corner.	
2: Direct label printing option.	
3: Dymo label printing option.	
You can generate labels with barcode only or	
check "Add name to label" to have the record	
name and/or add free text on the field beneath.	
You also can print labels with no barcode.	
You can choose your labels and your label printer.	
To print, click on <i>"Open in a new window".</i>	

# 🛣 Tips / Hints

LabCollector offers the possibility to print several barcode labels at once. For more information, refer to Qsection10.2.

# 7.7 Importing data

In order to facilitate the transition from other applications or databases, LabCollector can receive data from external sources.

The import feature can also be used to import batch sample lists from equipment or devices for example.

For more information and examples, see on **EXB:** how to import data.

## 7.7.1 Import data of external files

- 1. Open the Import interface: Admin  $\rightarrow$  Data  $\rightarrow$  Import
- 2. On the Import screen select the module where you want to import data.
- 3. Prepare the LabCollector database: before importing data, you have to configure the module you chose. You need to previously create all the fields you need. Go to Admin → Data → Custom fields and Default fields.
- 4. Then, go back to Admin  $\rightarrow$  Data  $\rightarrow$  Import.
- 5. Follow these instructions to create your import file:
  - The first line of the import file <u>MUST BE title tags that MATCH EXACTLY</u> either the field database name (real field name, database format) or the field legend (exact name that you give to the field). See our KB: on recipe manager.
  - The order of the columns is not important.
  - Imported data <u>MUST CONTAIN</u> title tags/fields related to name (if you have set up your module with Erreur! Source du renvoi introuvable., leave the column empty) and *owner* (unless you select to overwrite imported owners in advanced options or the module doesn't use the owner field as Reagent & Supplies module).
  - Besides name and owner you <u>DON'T NEED TO USE ALL TITLE TAGS</u> but only those containing values you want to import.

**NEW!**: Import now allows the selection of used title tags.

To help you, you can download one of the excel files "Legend Title Tags" or "Database Name Title Tags" and fill it. Deactivated default fields will not be in those files.

**NEW!**: Import can now detect mandatory fields.

Step 1: Import Options					
Strains & Cells Download Legends Title Tags	Download Databas	e Name Title Tags			Advanced Options
Before	e importing any	fields please read	the instruc	tions below carefully.	
Import	Upload File	O Paste Lines			
File	Click Upload Te	o Choose File		Upload	
	Maximum Upload	File Size: 150M			
Field Separator	💿 Comma (,)	🔵 semicolon (;)		O Custom Separator	
		Proceed to St	ep 2		

# 🕰 Note

Each imported record can have a project code. Each project code used must already exist in LabCollector for a correct importation.

Custom fields such as Database Upload and Disk Folder Upload cannot be imported. You can use the

free add-on KB Custom Field File Upload.

Date must be formatted as yyyy-mm-dd or yy-mm-dd.

Ensure your PHP has increased limits: max\_input\_vars = 10000 or more (See our KB: on importing large files).

- Save your excel file as .txt or .csv file. You may need to choose a delimiter option at this point. Make sure the choice does not appear in the data you want to import. Data cannot have separator characters in it (e.g. if you select commas, you cannot have commas in your data values). Separators must therefore be unique and present as data delimiters ONLY! Some data need separator characters inside (like genotype, multiselect or GPS fields)! In this case the separator characters "|" or ":" must be used. This separator character CANNOT BE THE SAME as the separator character used as a unique data delimiter.
- 2. If you want to import data without uploading a file, you can use the paste area to copy-paste the rows you want to import.
- 3. Select the data file to upload through "Browse".
- 4. Choose the field separator used in your data file. Under Advanced options, you can access the file encoding. With the "Import to waiting list" option, all users will be able to import data which will be stored in a waiting list before their validation.
- 5. Click on *Proceed to Step 2*.
- 6. Carefully check the temporary import data displayed on screen. This helps you decide if data have been well parsed and can be permanently saved on the database.
- 7. Submit the "Step 2" form by clicking on *Confirm* to validate the data.
- 8. Data import is completed.

**NEW!**: Import now supports associated owners.

**NEW!**: Import now takes into account the parent category field value when validating mandatory sub-fields when those sub-fields are present inside the file.

# A Note

DISCARD invalid temporary data! Always remember to discard temporary data which is invalid. Temporary data is stored on temporary database tables that need to be deleted when you discard or cancel the import action. This way you avoid accumulating unnecessary temporary tables.

Imported data owner. Administrators can import data under any name. Staff can import under their own name only.

Import action in 2 steps. Data to import can first be browsed and displayed on screen for checking. This way you can visually confirm that data is correctly parsed before permanently saving it on the database.

# 苯 Tips / Hints

On the home page you have access to a special add-on to generate a rack/tray to be loaded into the module Sample of LabCollector. This accelerates sample registration with direct storage definition. For more information, please see Batch Generator (Rack Scanner).

You can now import Main storage using this function as of version 5.421. Fill in the relevant details in the following columns: Box ID/Box Name , Position in Box and Volume.

**NEW!**: The brand name is now supported by Import. Once added in your CSV file, you will notice that all new records now contain a field entitled "Brand" (see screenshot below for an example).

1. LabCollector

ller_id->161brand->120						
Preferences/Import Data						
tep 2: Validate Imported Data						
Iodule: Reagents & Supplies						
Name *	Category *	Seller	Seller Reference	Seller Price	Brand Brand Referen	ice
Import with Brand 1	acide	ghalia (AGILEBIO)	54	57878788	Sigma 64654658	
						Confirm Disc
		ls Preterences Admin				
		gents & Supplies		Search by: Keyword	Lot ID	
	Module Module	s / Reagents & Supplies			Q	
		c	operator: AND - Status: Active -	Sort results by: Id	V DESC V Strict search	
				Expand searc		
				Expand searc	n options 👻	
	468 results found   G	Show/Hide all records on page				
	ID 🗢 N	ame	Comments & Description	ory 🗢 Seller 🛛 🗢 CAS M	Number 🗢 test autoco 🗢 resell price 🛛 🗢 F	
	823	import with Brand 1	acide	ghalia (AGILEBI O)		
	C.	Creation Date	03/30/2021 18:10:28			
		Comments & Description				
	<b>B</b>	comments & Description				
		C	a state			
	Ť	Category				
	5	Seller	ghalia (AGILEBIO)			
	5 1	Seller Seller Reference	ghalia (AGILEBIO) 54			
	₽ ₽ ₽	Seller Seller Reference Seller Price	ghalia (AGILEBIO) 54 57878788			
	₽ ₽ ₽	Seller Seller Reference Seller Price	ghalia (AGILEBIO) 54			
	タ 日 ご 世	Seller Seller Reference Seller Price	ghalia (AGILEBIO) 54 57878788 Sigma			
	₽ ₽ ₽	Seller Seller Reference Seller Price Brand	ghalia (AGILEBIO) 54 57878788 5igma 64654658			
	タ 日 ご 世	Seller Reference Seller Price Brand Brand Reference	shalia (AGILEBIO) 54 57878788 5787788 59878 64654658			

## 7.7.2 Import storage

Import storage via a CSV file is possible using the Import Storage function found in Admin  $\rightarrow$  Storage  $\rightarrow$  Import Storage.

A Note
Be aware that importing into a position that already has a tube assigned to that position will result in the original value being replaced by the new tube.

Numeric positions (1,2,3...100) can be used instead of coordinates (A1, A2,...,J10).

Step t Read file to import
t Please select the format of data file:
INTERNAL ID <sop> Box ID or Box Name (must be unique) <sop> Comments <sop> Positions (as AtA2_) <li>Ino food&gt;     Or</li></sop></sop></sop>
O RECORD NAME (must be unique) <sep> Box ID or Box Name (must be unique) <sep> Comments <sep> Positions (as ALA2_) <inc feed=""> or</inc></sep></sep></sep>
(2D) unique code (sop) Box ID or Box Name (must be unique) (sop) Comments (sop) Positions (as ALA2) (line food)
Additional columns in order after Positions: <sop> unique code <sop> Volume <sop> cap color where <sop [optional="" a<="" allows="" baracters.]="" character.="" code="" is="" of="" port="" separator="" td="" the="" thin="" unique=""></sop></sop></sop></sop>
2: Data Module: Select Module 🔹 💿 Main Storage 🔿 Secondary Storage
3: Select file to import:
Click Upload To Choose File Browse ISO-8859-1 🗸
Or Copy/Paste the lines from Excel to import below (tabulated):
4: Owner of storage: Wanda Wong <ul> <li>(only applies on secondary storage)</li> </ul>
Use numeric positions (1.2.3100) instead of coordinates (AI, A2, JIO)
Force Box Name (this is useful if your box names are made of numbers only)
Labels on line I (first line will be skipped)
Field Separator: O Comma () (does not work for multiple positions) O semicolon (;) () tabulated O Custom separator (must be unique)
Import & Update

- 1. Select format of the data to be imported.
- 2. Select the module and if it's to be added as Main or Secondary storage.
- 3. Add your file and choose its encoding or Copy and Paste lines from Excel.
- 4. Select the owner. You can also choose to use numeric positions instead of coordinates, force Box naming, specify that there are labels on the first line of your file/pasted lines, and finally choose the field separator of your file.

## A Note

Import storage in Reagent & Supplies module works ONLY with Secondary storage.

**NEW!**: Import system now has the option to verify if the imported box positions are free or already occupied.

### 7.7.3 Import data from GenBank (with annotations)

In the Sequences modules, it's possible to import files from GenBank (with annotations) to LabCollector database.

Depending on your choice, you can import sequences or plasmids, respectively in the Sequences and Plasmids modules (if you check the box *Upload as Plasmid*).

Please see our KB: how to upload sequences in plasmid and sequences module.

Click on Import GenBank Data at the top right.



#### A new window opens:

CGTATCGA GCATGCT Modules/Sequences/Import Gen	ibank Data
Q GenBank search:	
	rd: Search GenBank
Enter keywo Max. results per pag	ge: 10 Search on proteins database:
🔁 Upload GenBank File (.gb):	
Upload Sequences	Upload Plasmids
	⊕ Drop files here or click to upload new sequence files
i	i

You can now search a sequence through GenBank and import it into your LabCollector database:

LabCollector - Agilebió dev lab 🗙	+					_	[		×
$\leftarrow$ $\rightarrow$ C $\triangleq$ dev1.agilebio.	/admin.php	Q 🕁	C	$\overline{\mathbf{T}}$	G	0	*	N	:
Apps									*
<b>Q</b> Search for							Barco	ode	
문문 🔑 🗋 해당 Miciclulies Toolis Preferences Admin	LabColle	ector				() Help	Alerts	wv	
Sequences Modulos/Sequences/Import Genbank Data									
Q GenBank search:									
Enter keyword: EColi Max. results per page: 10	Search GenBank								
< 10	Add to LabCollector DB	1					10>		
	Search results:								[
Total results: 17054784 Tota "Escherichia coli"[Organism]: 8665360 partial resul E.Coli[All Fields]: 9546772 partial results	Il retriovod: <b>10</b> ts								
	Short description	n:							[
gill938294116lgblCP0651381l[1938294116] Sphingobium sp. Cam5-1 chromosome 1 Overflow riskl Size2852106 gill938289980lgblAAXLVV000000000.IAA)	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)								
Escherichia coli strain FDA1146114-S003-00 Size:89		project							
gill938289464lgblAAXLVR000000000.1AAX Escherichia coli strain FDA1146114-S002-00 Size:91		project							
gill938289463lgblAAXLVS00000000.1lAAX Escherichia coli strain FDA1146114-S002-00 Size:71		project							
gill938289461lgbJAAXLVT000000000.1JAAXI Escherichia coli strain FDA1146114-S003-00 Sizo:124		project							

Select sequences that you want to import by checking the box or using the check all button, then click on *Add to DB*. The box(es) go green which indicates that the sequences are now in your LabCollector database.

#### • Import sequences/plasmid by uploading GenBank file

You have three options to choose how to upload the files:

- 1. Create a new record.
- 2. Update existing records (matched by name). Ignore if the record is not found : In this case, if there's already a record in your LC database with the exact same name as the one your are uploading from GenBank, it'll automatically get updated. But if no record was found, nothing happens.
- 3. Update existing records (matched by name). Create new records if they are not found : Contrary to the first option, if no record was found, a new one will be created and added to your database.

After selecting the desired option you can upload the appropriate files (.gb) by clicking on *Drop files or click to upload new files* and automatically the files will be uploaded in the selected module. The green check confirms the success of the uploading. Repeat this step as many times as you need . Don't forget to switch to the "Upload Plasmids" mode to import data in *Plasmid* module.

Sequences Modules/Sequences/Import	Genbank Data	
Q GenBank search:		
SNCBI	Enter keyword: Search Max. results per page: 10 Search on proteins database:	rch GenBank
🖂 Upload GenBank File (	(.gb):	
Upload Sequences	1	Upload Plasmids
Step 1: Select upload ma	ode	
Create new records		
O Update existing records	s (matched by name). Ignore if the record is not found	
O Update existing records	s (matched by name). Create new records if they are not found	
Step 2: Upload Sequence	205	
21~~B addgune-pl.		
		Clear

This application can be very useful if you need to import large amounts of data from GenBank files.

**NEW!**: It is now possible to perform an NCBI search inside the Plasmids module. Once done, you can then select the plasmid you want and add into your LC database, the plasmid will then get automatically added alongside its map and annotation. (See screenshot below).

do III

Modules	ク ロ ロ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・			LabCollec	tor						Ø ℓ Help ℓ	AP WW
	l <b>lasmids</b> iodulos/Plasmids		Sea	rch by: Keyword	ID							enBank Data
		Operator: AND ~	Status: Active 🗸	Sort results by: Id	~		Clear Strict search	£ 4			© Plasmid ≳Blast ne	Map Editor w sequence
				Expand search optio	ns 👻							
403 results fou	and I (0, Show/Hide all records on page	References & Comments	Features	Associated !	A Chapter -	salaat Salduu	🕈 date field up., 🕯	datatima fial	vero tertu	Tube Count		₿0
<b>-</b> 3	{] camil2	reference and comments 1		1	Piorro	Select 2	e ente nere opri i		Yos	3 Tubes   2 Others	ውል	2
36	(54875652) camil5.2	TEST	Footuros Tost	2	Stopan Khomon.	Pro-Registed	2020-11-02	2020-11-0212:04:	Yos	1Tubo	0 d 🕹	
37	[ (testá) camil6			1	Wanda Wong	Pro-Registed			No	4 Tubes  1 Other	0 t	
8	camil7βaψ			1	Wanda Wong	select1			No	10thor	ල ස	₽₽0.
39	a camil8-2			1	Wanda Wong				No	10ther	🖉 🗘 🍐	
10	camil9	test repeated fields in version list		1	Wanda Wong				No		0 🕹	
311	Tosto/I-PI	cloned from sample		1	Wanda Wong				No	2 Tubos	0 🕹 🗘	<i>₽0</i> ₪ 0
312	VozIII			EV230	Wanda Wong	Soloct 2			No	1Tubo	\n \langle \circ \	
	VazlT2-P2			1	Wanda Wong				No		0 C 🕹	8000
13	V02[12 12											

## 7.8 Mass data update

O Search for

LabCollector includes an administrative tool for updating the price field of several records in the Reagents & Supplies module.

### 7.8.1 Mass price updater

It allows an automatic price update for every record in a list.

1. Generate a full or filtered list of reagents by exporting data to excel (from reagents & supplies module page).



- 2. Admin  $\rightarrow$  Data  $\rightarrow$  Mass price updater.
- 3. Select your file to import, field separator and record references.
- 4. "Import & Update"
- 5. Check your data import and validate.

S Mass Price	Updater Vrice Updater (Import and Update prices for Reagents/Consumables)
This tool will update the <b>PRICE</b> f backup done first).	ield of the "Reagents and Supplies" module. Use this administrative tool to automatically update all prices at once. USE WITH EXTREME CARE (have a DB
	Step 1: Read file to import
	Please select the format of data file: REAGENT ID <sep>PRICE<line feed=""></line></sep>
	where <sep> is the separator character.</sep>
	Select file to import:
	Click Upload To Choose File Browse
	Field Separator: O Comma (.) O semicolon (.) 💿 TAB
	O Custom separator (must be unique)
	Record reference:  CabCollector ID  Record reference:  CabCollecto
	Import & Update

Data file must be a text file with two columns delimited by a separator character that can be a comma, semicolon, TAB or any other.

## 7.8.2 Mass record updater

LabCollector C offers an administrative tool called Mass Record Updater . This tool allows you to update one or more fields for several records at once on any module of your choice.

To access the tool, simply navigate to Admin -> Data -> Mass Record Updater, the tool's interface should look something like this:

Q Search for_		Barcode.
Here in the second seco	LabCollector	🛞 🔔 🖤
Mass Record Updater Admin/Data/Mass Record Updater aka Mass Field Updater	later (Import and update fields automatically)	
Use this administrative tool to automatically update a list of fields in a Please ensure your PHP has increased limits: max_input_va	multiple records. Use this tool with care. USE WITH EXTREME CARE. Backup your database before using this feature as changes cannot be undone. rs = 100000 or more.	
Note: Fields corresponding to drop-down selects can receiv	ve value ID or textual value.	
	Step t Road file to import	
0	Please select the format of data file:            INTERNAL ID resprifieLD TO UPDATE I (resprifieLD TO UPDATE _) (line feed>              Or              Or for samples only              Or Dunique code resprifieLD TO UPDATE I (resprifieLD TO UPDATE _) (line feed>              Or for samples only             Or Dunique code resprifieLD TO UPDATE I (resprifieLD TO UPDATE _) (line feed>             Or Dunique code resprifieLD TO UPDATE I (resprifieLD TO UPDATE _) (line feed>             Where resprise the resparator character. Field 2.14 are optional.             E Number of fields to update: 4         (restart)             2. Module:             Reagents & Supplies             S. Choose fields:             Field 1:             Storrage Location (storrage_id)         v	
	Field 3: Field 4:	
	Saller (saller_id) V Brand (brand) V	
0	4: Select file to import:     Click Upload To Choose File     Browse     ISO-8859-1     Labels on line 1 (first line will be skipped)     Field Separator:     Comma ()     semicolon (:)     TAB     Custom separator (must be unique)     7     Import & Update	
v. 635 Licensed to agilebio	LabCollector	

Here are the steps that you need to follow in order to successfully import and update your records (please refer to the numbers on the screenshot above):

- 1. The Mass Record Updater tool offers you the possibility to import files with three different formats: Internal ID, Record Name, and 2D barcode.
  - The Internal ID format identifies records by their LabCollector's ID number.
  - Record Name format matches records by their unique name.
  - The 2D barcode format identifies records by their tube's barcode number.
- 2. After selecting the file format, you need to select the number of fields to update. Please note that if you ever wanted to reselect the number after validating it, simply click on **restart**.
- 3. Select the module for which you want to update the records. The Mass Record Updater tool allows users to update records on any module of their choice.
- 4. After selecting the module, select in order the fields you want to update.
- 5. Select the file you want to import.

## 🔭 Tips / Hints

You can use either ISO 8859 or UTF-8 character encoding standards to ensure proper support of special characters in your data. Please note that ISO 8859 is suitable for a range of European languages, while UTF-8 is suitable for a much wider range of languages and characters.

6. If your file contains labels on the first line, you can skip them by checking the box "Labels on line1". Otherwise, keep it unchecked. Also, select the appropriate field separator, whether it's a comma, semicolon, a TAB, or any other custom separator that you require. This separator must be unique and consistent throughout the file.

7. Once you have completed all the steps, click on Import & Update. The Mass Record Updater tool will update the records based on the selected fields and the data in the imported file.

# A Note

USE THIS TOOL WITH EXTREME CARE. Backup your database before using this feature as changes cannot be undone.

• Here's an example of a .txt file using semicolon (;) as a field separator and choosing Internal ID as our file format.

example × +
Fichier Modifier Affichage
Internal ID;Name;Storage Location;Seller;Brand;Quantity
1001;Ethanol;Chemical Storage;ABC Chemicals;Sigma-Aldrich;500mL
1002;Sodium Chloride;Lab Fridge;Fisher Scientific;VWR;1kg
1003;Agarose;Room Temperature Storage;Bio-Rad Laboratories;Bio-Rad;100g
1004;Tris-HCl;Chemical Storage;Thermo Fisher Scientific;Thermo Scientific;1L
1005;DMSO;Lab Fridge;Merck KGaA;Sigma-Aldrich;100mL
1006;Acetic Acid;Chemical Storage;Sigma-Aldrich;Sigma-Aldrich;500mL

• After clicking on Import & Update, a new tab will appear in which you can view and compare the older values of your records with the newer ones (as shown in the screenshot below), once you finish reviewing the changes, you can click on "Validate bulk update" to confirm your choice.

Record ID		name			storage_id		seller_id	brand	
	Record name	OLD value 1	NEW Value 1	OLD value 2	NEW Value 2	OLD value 3	NEW Value 3	OLD value 4	NEW Value 4
00001001	20220314-01	20220314-01 (20220314-01)	Ethanol		Chemical Storage	0	ABC Chemicals	0	Sigma-Aldrich
00001002	20220314-02	20220314-02 (20220314-02)	Sodium Chloride		Lab Fridge	0	Fisher Scientific	0	VWR
00001003	20220314-03	20220314-03 (20220314-03)	Agarose		Room Temperature Storage	0	Bio-Rad Laboratories	0	Bio-Rad
00001004	9589898984	9589898984 (9589898984)	Tris-HCI	0.0	Chemical Storage	0	Thermo Fisher Scientific	0	Thermo Scientific
00001005	489721348964	489721348964 (489721348964)	DMSO	0.0	Lab Fridge	0	Merck KGaA	0	Sigma-Aldrich
00001006	20220318-01	20220318-01 (20220318-01)	Acetic Acid		Chemical Storage	0	Sigma-Aldrich	0	Sigma-Aldrich

## 苯 Tips / Hints

You can use this tool to update/import storage, analyses results, corrections, or any other data you want to update.

## 7.9 Inventory updater tool

You can generate your batch lists using our mobile app by scanning lot barcodes and associating the quantities.

Then import the list using this page. This import form works with CSV or other text file with delimited data. You can convert your data to text format (text file with DOS line break) with field delimiters of your choice from Excel or other database types. See your application documentation.

System is compatible with AgileBio PT-10 programs available at request. Using USER mode, provides traceability of stock movements per user and groups.
Android app is also available for use on barcode PDA, phones or tablets.

Hodules Tools Preferences	부나 나무 Admin
Data	Storage
lmport	🖁 Manage Storage
🎭 Mass Record Updater	↓ Import Storage
(\$) Mass Price Updater	😫 Users R&S Consumptions
Delete Multiple Records	≓ Storage IN/OUT
🗱 Custom Modules	Batch Lots Inventory
Default Fields	↓ Import Batch Lots
Eustom Fields	📕 Simple Reagents Storage

#### 7.9.1 Quick destock

Access this tool from Admin  $\rightarrow$  Storage  $\rightarrow$  Batch Lots Inventory. A. You can export, all lot information or export value report excel.

Batch Lots Inve Admin/Storage/Batch Lot			A	
	You can generate your batch lists using our mo and associating the quantities with each. Ther import form works with CSV or other text file with data to text format (text file with DOS line brea from Excel or other database types. See your app (discontinued). Using USER mode, provides trac- and groups. An Android app is also available tablets. NOTE: Data cannot have separator characters in it (ef commas in your data values). Separators must therefor ONLY	I import the list using this page. This delimited data: You can convert your k) with field delimiters of your choice plication documentation. rograms which available on request ability of stock movements per user for use on barcode PDA, phones or g; if you select commas, you cannot have	Export Al Lots to Excel	Export Value Report from last 90 days
1-F0	Batch inventory update: Step1 mat (optional STORAGE BARCODE (sop.)) Lot Ref or barcod Countity replacement Countity reduction (original - new) Countity add (original + new) Countity add / removal defined in file (optional Uses storage barcode (first column) Use SUSR ID/barcode (after Quantity column). (Tre Labels on line 1 (first line will be skipped) Select file to upload and import	e (unique) (sep) Quantity (optional USER (sep)) ( al column at the end of lines) o trace individual consumptions) Click Upload To Choose File	Browse	
7	Field Separator: () Comma () () semicolor	a (;) O tabulated O Custom separator (m	ust be unique)	

B. Here you can import the lot data.

Step 1: Here you can import batch inventory.

- Here you will find the options to import, which you can make while creating your CSV file. Data file has two columns. First column is for LabCollector internal Lot ID or Lot unique reference or barcode. Second column stores the real stock quantity. You can now also import the storage location by adding the storage box ID which is the barcode too.
- 2. Choose between 3 options: quantity replacement, quantity deduction or add quantity.
- 3. If you are adding the storage location, you can add the barcode (Box ID) in the first column of CSV.
- 4. After the quantity column you can add the User ID/barcode to track individual consumption.

- 5. If you have labels on first line (the name of the column) then the first row will be skipped.
- 6. Here you can select the CSV file to upload.
- 7. You can specify the field separator used in the CSV.
- 8. After you are done you can proceed to step 2.

#### 🔭 Tips / Hints

You can choose ADD mode and have a list of mixed positive and negative values. This will do subtractions and additions in a single step to lot values in the database.

Step2: You will see the data imported and if all values are good, you will be asked to proceed to step 3.

#### Step3: Confirm stock update

You are presented with a table with the full inventory list parsed from the list. You are notified of errors (if a product is not found in LabCollector or if there is a redundant ID). Current quantity and new quantity are presented and there is a check box to confirm or reject the update for each item.

#### 7.9.2 Internal consumptions

Internal consumption management with re-bill option on budget accounts can be made with the Users Reagents & Supplies Consumption tool.

Go to Admin →Storage →Users R&S Consumptions

To use this tool, reagents and supplies price and packaging have to be configured as well as budgets accounts (see  $\square$  section 9.1.1).

Each product destock is registered (user ± group, quantity, price) and can be rebilled.

By budget Ref:	Ordered By:					From G	roup:			
Choose Budget 🐱	Anyone				~	Any G	oup	~		
List Date:				List Do	ite:			No Budgets:		
From	📋 То			DEW6	ER 🖌	3 Months	~	No Payer Budget	No Recredit Budget	
Has risk or safety code:	Safety	pictogra	ms is:							
Any Risk	✓ Ar	ny Risk 👻		Filter	r					
🕭 Batch Consump	tion								<del>C</del>	×
Batch Consump	tion Date	Qty.	U.Price	Subtotal	User		Group	🏝 Paid On	Paid To	X Date
Item		Qty.	U.Price 12.00	Subtotal	User Wanda Wor	ng	Group	ے۔ Paid On		
Item (8) 1042603055	Date	~ /					Group	🍰 Paid On		
· ·	Date 09-Sep-2020	1.00	12.00	12.00	Wanda Wor	ng	Group	الله Paid On		
Item           0142603055           0142603055           0142603055           0142603055	Date           09-Sep-2020           09-Sep-2020	1.00 2.00	12.00 12.00	12.00 24.00	Wanda Wor Wanda Wor	ng	Group	🍰 Paid On		
Item           ® 1042603055           ® 1042803055           ® 1042803055           ® sps2           ® 1800485389	Date           09-Sop-2020           09-Sop-2020           14-Sop-2020	1.00 2.00 700.00	12.00 12.00 100.25	12.00 24.00 70,175.00	Wanda Wor Wanda Wor Wanda Wor	ng ng ng	Group	🚣 Paid On		
Item           (*)         1042603055           (*)         1042603055           (*)         1042603055           (*)         502           (*)         1800485389	Date           09-Sop-2020           09-Sop-2020           14-Sop-2020           14-Sop-2020	1.00 2.00 700.00 20.00	12.00 12.00 100.25 500.00	12.00 24.00 70,175.00 10,000.00	Wanda Wor Wanda Wor Wanda Wor Wanda Wor	ng III III III III III III III III III I	Group	🛓 Paid On		
Item           042603055           3042603055           3052           3052           3060485369           3051570122	Date           09-Sop-2020           09-Sop-2020           10-Sop-2020           14-Sop-2020           14-Sop-2020           14-Sop-2020	1.00 2.00 700.00 20.00 5.00	12.00 12.00 100.25 500.00 12.00	12.00 24.00 70,175.00 10,000.00 60.00	Wanda Wor Wanda Wor Wanda Wor Wanda Wor	ng ng ng ng ng	Group	≟ Paid On		

#### 7.9.3 Export all lots/stock



With this option you get an Excel file with all stock (lots) from all reagents and supplies. This allows you to create a stock list and update quantities manually.

You need to tick mark the checkbox below the image.

(see <u>section 7.9.1</u>)

### 7.9.4 Export Value Report



With this option you get an Excel file with all stock (lots) from all reagents and supplies together with value indication based on item price. You need to tick mark the checkbox below the image.

(see <u>section 7.9.1</u>)

#### 7.10 Backups

Data integrity is crucial to maintain information accuracy.

Administrators should perform regular backups (at least if the database changes). Those backups should be stored on separate media such as secondary hard drives, CD-R, DVD-R, etc.

#### 7.10.1 Database dumping

LabCollector provides an easy tool to create backups. Go to  $Admin \rightarrow Data \rightarrow Backup$ . Then click on the "*Start New DB Backup*" button. You can choose whether or not to backup ELN tables here and also, if using UNIX/LINUX, whether or not to backup documents, maps and files that are stored outside of the database.

Please read more on our Knowledge Base EKB: backup of LabCollector database.

The Backup Retention policy section controls how many previous backups you want to keep from 0 to 7 when running manual backups.

#### 1. LabCollector



# 🚹 Warning

UNIX/LINUX systems only! Check the "Backup files too" checkbox to create a compressed archive of the documents and maps folders.

Windows: Users have to manually backup the documents and maps folders. They are located in LabCollector's root folder.

The files generated from the backup are listed on this screen and you can save them anywhere you want.

You can also set up automatic backup. Just define a name task, a frequency and a time then validate using the *Schedule Backup* button.

#### 7.10.2 Automatic full backups (with LabCollector Manager)

An easier manual and automatic backup can be done through the Server Manager on Windows platforms.

Open the LabCollector Manager application on the LabCollector server and go to Settings  $\rightarrow$  Automatic backups.

Š	abCollector Server Manager       Image Providential Server Manager         30   LC v6.111   PHP v7.4.28   Apache v2.4.53   MariaDB v10.6.8									
	Update Instance	Open								
Start All	INSTAN	ICE NAME	ALIAS	VERSION		PATH				
Stop All	Den Den	no Lab	lab	6.111	C:\Program Files (x86	i)\AgileBio\LabCollector\	www\lab			
Version 6.111										
Settings										
<b>?</b> Support										
			S Da	tabase Server	Web Server	Backup Server	Sync Server			

This backup utility will compress the MySQL database folder directly (mysql/data/labcollector) and the "www" folder located in "C:\Program Files\AgileBio\LabCollector" to the destination and with the periodicity defined in the settings.

- Choose the directory for the backup folder
- Choose between short-term or long-term backups or both
- Fill out the form with your requirements
- Click on "Save and close"

Please read our **EXE**: how to use server manager.

# A Note

Network backup! With this utility you can backup directly to any storage device over the network. The device must be unprotected (no password). If you must work with a password protected system get in contact with AgileBio to discuss solutions.

Recover backup! Compressed backup files from the manager backup utility can be recovered simply by decompressing them and replacing the original folders (www and /mysql/data/labcollector).

## 7.11 Audit trail

LabCollector allows you to have audit trail log for all the changes in the LabCollector. To view it go to Admin  $\rightarrow$  Other  $\rightarrow$  Audit trail.

		1 Search keywe	ord: upgrade		Show ! C	lear		
	View log for past: 15	days or FROM	2019-04-09	TO:	2020-12-07	for Any Module	~	D
Optio	nal criteria:	2						
restric	ot to user: See all users	s 🗸 or s	staff name l	nas				
	results: 7				4			
#	User	Date	Location	Module Rec	ord Action/Des	cription	Reason	checksu
203161		17-Nov-2020 10:40:14	admin	(0)	UPGRADE from	n 5.5 to 6.01		$\odot$
202796	admin (Wanda Wong)	13-Nov-2020 19:00:40	admin	(0)	UPGRADE from	n 6.0 to 6.01		$\bigcirc$
202795	admin (Wanda Wong)	13-Nov-202018:19:05	admin	(0)	UPGRADE from	n 6.0 to 6.01		$\bigcirc$
202063	admin (Wanda Wong)	09-Nov-2020 15:32:24	admin	(0)	UPGRADE from	n 5.5 to 6.0		$\bigcirc$
189652	admin (John Doe Lópèz)	16-Jun-2020 17:02:40	admin	(0)	UPGRADE from	n 5.5 to 6.0		$\bigcirc$
187187	admin (John Doe Lópèz)	18-May-2020 06:33:42	admin	(0)	UPGRADE from	n 5.5 to 6.0		$\bigcirc$

- You can search the trail according to a specific keyword. NEW!: The audit trail log now includes the upgrades to LabCollector versions as well. As seen in the above image.
- 2. You can chose the date you want to see the audit trail for or the specific module or days.
- 3. Once you are done you can click on "Show" and you will see all the log related to your search.
- 4. For example, you can see under the actions or description of each audit trail.

### A Note

When moving a record into another storage location, the action will get registered on the audit trail with a full description on who did the action, when, and to exactly which new location the record was moved.

Search for	¢ ¢  ¢				Labollector		Barcode.
<ul> <li>Users history Admin/Users history log</li> </ul>	log/Audit tr	ail					⊘Execute Re □Purge Audi
				Search keyword	t Show ! Clear		
		Vi	ew log for past	days or FROM	TO: for Samples		×
Optional criteria:							
restrict to user. See all us	ors	~	or staff nam	e has			
Total results: 39 # User	Date	Location	Module	Record		Reason	checksum
532660 admin (Wanda Wong				00	Secondary Storage REPLACEMENT   NEW Storage (Box): Box ABG (Box ID: 1842)   Previous Storage (Box): F802.		©
532588 admin (Wanda Wong	) 01/11/2022 21:44:07	samples		(36183) (3) 1667335429523	PR4 (Box ID: 226)   Secondary Storage ID: 5425   Box Positions:   Volume: 1  Owner: Admin (contactID: 59)	J	
	a) 01/11/2022 21:40:24			(36182) (3) 1667335198595	Save record		Ø
	1) 01/11/2022 18:27:30			(36181) (3667323626119	Save record		Ø
	<ol> <li>01/11/2022 18:14:09</li> </ol>			(36180) (3667322830669	Save record		Ø
532554 admin (Wanda Wong	a) 31/10/2022 22:27:58	Samples		(II) (II) (II) (II) (II) (III) (IIII) (III) (IIII) (III) (III) (III) (II	Save new process (0)		Ø
532553 admin (Wanda Wong	g) 31/10/2022 21:45:01	Samples	SP	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Save new process (0)		$\odot$
532551 admin (Wanda Wong	g) 31/10/2022 20:06:39	Samples	SP	(II) 🔠 mBRS100000II_C0I	Save new process (0)		$\odot$
532521 admin (Wanda Wong	g) 29/10/2022 01:29:42	samples	SP	(6) 🔠 SPL-01	Sign Record   Record: SP-6	汉字g	$\odot$
	<li>a) 29/10/2022 01:29:09</li>		SP	(6) (3 SPL-0)	Read-Only Record (Terminate Record Edition)   Record: SP-6	highvhgihg	

**NEW!** You can review your audit trails. This will guarantee that the audit trail logs were visualized and approved at this date. Reviewing is allowed only after an audit trail log visualization.

Q Search for		Barcode 🛄
H C C C C C C C C C C C C C C C C C C C		🛞 🖉 👐
Users history log/Audit trail		⊘ Execute Review □ Purge Audit Trail
	Search keyword: Show I Clear	
	View log for past 15 days or FROM. TO: for Any Module 🗸	
Optional criteria:		
restrict to user: See all users	✓ or staff name has	

Once you click on Execute Review, a new tab appears (as shown in the screenshot below).

# Audit Trail Review

Audit trail review will guarantee that the audit trail logs were visualized and approved at this date.

Review Reason:	
Reminder:	Active Alerts menu will display a review reminder 6 months after the previous review
	Inactive

Review not allowed! Audit trail log visualization is required before proceeding with the review

Confirm Review

- First, write the reason you want to review the audit trail.
- You can then select two reminder options, either Active, which mean that the Alerts menu will display a review reminder 6 months after the previous review, or Inactive, which means that the Alerts menu won't display any reminder.
- Finally, click on Confirm Review.

# A Note

- First, you will have to visualize the audit trail before being able to proceed with the review.
- When an audit trail hasn't been reviewed for over six months, you will receive an alert.

**NEW!** You can purge audit trail logs, this will help reduce database table's size and increase performance. But purging is only allowed after an audit trail review and audit trail export. Also, keep in mind that this action is irreversible, so please be aware of your compliance obligations and ensure your retention period is covered.

Q Search for		Barcode_ 📗
문 / 다 아이 Modules Tools Preferences Admin	LabCollector	🛞 🖉 🗤
Users history log/Audit trail		© Execute Review
	Search tayword: Show 1 Clear	
	View log for past. 15 days or FROM TO: for Any Module V	
Optional criteria:		
restrict to user: See all users	or staff name has	

#### 1. LabCollector

#### Once you click on Purge Audit trail, a new tab appears (as shown in the screenshot below).

Purge Audit Trail								
Purging the audit trail logs will reduce database table's size and increase performance. But purging is only allowed after an audit trail review and audit trail export. Also keep in mind that this action is irreversible so please be aware of your compliance obligations and ensure your retention period is covered.								
Purge Timeframe Type:	🔽 Full Year							
	Date Range							
Purge Timeframe:	Select Years -							
Purge Method:	<ul> <li>Archive</li> <li>Audit trail logs will be archived in a separated table.</li> <li>This will reduce audit trail table size and increase table performance but won't reduce the complete database size.</li> <li>Complete Deletion</li> </ul>							
Purge Reason:								
Purge not	allowed! Audit trail review is required before proceeding with the purge.							
	Confirm Purge							

- You can select the purge timeframe type to be either Full Year or during a certain time frame (Date Range).
- You also have the option to select the preferred purging method:
  - whether by Archiving : In this case, the audit trail logs will be archived in a separate table, which will help reduce the audit trail table size and increase performance but won't reduce the complete database size.
  - Or by complete deletion : In this case, the audit trail logs will be completely and irreversibly deleted, so please make sure to keep the exported logs.
- Finally, write the reason why you want to purge the audit trail and click on Confirm Purge.

# A Note

First, you will have to perform an audit trail review before being able to proceed with the purge.

# 8. Searching data

With advanced search options, you can search data very easily in LabCollector. Moreover, there are options to search the data with ID or barcode as well.

#### 8.1 Keyword cross-search table between modules

On the LabCollector home page, you can access information stored in the database with a keyword search.

Q See	arch for		Barcode_
Modules	양 다 해 s Tools Preferences Admin	Lab	Help Alerts
		saos	
00 Stro	ains & Cells : 4 results found		
7160	SaOS-2		Ś
7216	SaOS-2 p10		Ś
7217	SaOS-2 p9		R
7218	SaOS-2 p8		\$\$\$\$\$\$
😗 Sar	mples : 1 results found		
7618	SaoS-2		Ś

Results are displayed as a list found per module.

Open a quick view of the record with the icon at left and go to the record in the module with the blue arrow to the right.

#### 8.2 Search in each module

All modules are built in a similar way. The only difference is that the organization of the default fields reflects the specificity of data stored.

Please read our KB: how to search data in LabCollector.

Q	Se	arch for				Barco	de 💵
	odule	رچ s Tools	Preferences	입다 Admin	Lab Collector	Alerts	ww
0			DS & Cell Strains & Cells Operat		Search by: Keyword ID Q Clear & & Status: Active V Sort results by: Id V ASC V Strict search	E Ne	w Record
					Expand search options 👻		

You can use none, one or several keywords separated by spaces. The search does not accept any logical operator. Select between the two operators **AND/OR** in the select list. You can refine the search with specific optional criteria (Expand Search Options).

The select list STATUS allows to filter on the record status: Active (by default), Read-only, Archived, and All.

To list all data, do a blank search.

Main default fields are presented as optional filters as well as owner and group data. Reagent & Supplies module allows filtering on lot entry.

- Storage filters are included: room, equipment, rack/drawer and box.
- Custom fields are included in the search if they have been defined as searchable. Custom list options are presented as additional optional filters if they have been defined as filters.

If you know the record number you can type it directly in the ID field to access the record directly.

Results are displayed as a list of one item per line with basic information. You can sort results as ascending

or descending according to several criteria.

🍴 Strains ស					Search by: Key	/word ID				l	New Rec
Modules/Strains & Cells							Q Cle	ar 🛃 🏦			
		Operator:	ANE 🗸 S	itatus: Act	tive 🖌 Sort results	s by: Id	✓ ASC	Strict	t search		
Name LIKE:	0		rom organism:		Collapse sec Related to organism:	arch options 🔺					
NOMO LIKE:	Genoty		Any Organism		Any Organism	Owned by: All contacts	From g		Storage comme	INT LIKE:	
Date created:		Date updat	tod:		Filtor:	Date field		Timo fiold			
	8			Ë	💽 Storage filter:		Ü	From:	() To:	0	
DateTime field			Filtor:		Filtor:	Filtor:	Filt				
		<b>H</b>	💽 Start g	ghalia fiel	ds: 💽 End ghalia fi	eld: 💽 Green	Separator: 🕲	Analysis tab			
											-
sults found   @, Show/H	Hide all records	on page \$ Owner	r		Creation Date	¢	Last Update	4	Tube Count		[
		Owner	w member		Creation Date 08-Fob-2012 17:47:23		Last Update 09-Nov-2020 11:26:		Tube Count 15 Tubes   3 Strav s	× 🖉 🗘 🖄	
Name cell ((215) 486 5) Mi.	ixdes	Owner very ne 08-Feb-2012	w member 17:47:23 (Last		08-Fob-2012 17:47:23 09-Nov-2020 11:26:47)	3			15 Tubes   3 Strav s	N 🖉 🗋 💩	
Name cell ((215) 488 5) Mit Cree	<i>ixdes</i> eation Date	Owner very ne 08-Feb-2012 Version: 290	w member		08-Fob-2012 17:47:23 09-Nov-2020 11:26:47)	3			15 Tubes   3 Strav s	04	₽0
Name cell ((215) 488 5) Mi Cree	ixdes	Owner very ne 08-Feb-2012 Version: 290	w member 17:47:23 (Last		08-Fob-2012 17:47:23 09-Nov-2020 11:26:47)	3		\$7	15 Tubes   3 Strav s Stor	rage	₽0
Name cell ((215) 488 5) Mi Cree Optional Ur	ixdes eation Date nique Code	Owner very ne 08-Feb-2012 Version: 290	w member 17:47:23 (Last ) (Q View Ver		08-Fob-2012 17:47:23 09-Nov-2020 11:26:47)	3		t7 box nE	15 Tubes   3 Strav s Sto	rage	₽0
Name cell ((215) 488 5) Mi Cree Optional Ur	ixdes eation Date nique Code Comments	<ul> <li>Owner vory no</li> <li>08-Feb-2012</li> <li>Version: 290</li> <li>1234567909</li> </ul>	w member 17:47:23 (Last ) (Q View Ver dasdsd	rsion List)	08-Fob-2012 17:47:23 09-Nov-2020 11:26:47)	3		box nE	15 Tubes   3 Strav s Sto i 2 X	rage rack01.box1 11ube ex A5	<b>∂</b> ⁄ I i ⁄
<ul> <li>Name cell</li> <li>((215) 488 5) Mi</li> <li>Cree</li> <li>Optional Ur</li> </ul>	ixdes eation Date nique Code Comments Genotype	<ul> <li>Owner vory no</li> <li>08-Feb-2012</li> <li>Version: 290</li> <li>1234567909</li> <li>testdssadas</li> </ul>	w member 17:47:23 (Last ) (Q View Ver dasdsd	rsion List)	08-Fob-2012 17:47:23 09-Nov-2020 11:26:47)	3		box nE	15 Tubes   3 Strav s Sto i 2 X	rage rack01.box1 1Tube 6x	<b>∂</b> ⁄ I i ⁄
((215) 488 5) Mi	ixdes eation Date nique Code Comments Genotype	Owner very no 08-Feb-2012 Version: 290 1234567909 testdssadas asd,xxcvxdty Cirratulus cir	w member 17:47:23 (Last ) (Q View Ver dasdsd	rsion List)	08-Fob-2012 17:47:23 09-Nov-2020 11:26:47)	3		t7	15 Tubes   3 Strav s sto j P P	rage rack01.box1 11ube ex A5	<u>i</u> 2

You can expand one or more items by clicking on the magnifier icon  $(\begin{bmatrix} \begin{bmatrix} \begin{b$ 

Once expanded, you have all information available for the chosen item, including storage places, logs, etc. Data may be presented as sub-folders. You have access to additional information by clicking on the side icons (logs, secondary storage, lots, etc.).

# A Note

Super-admin can change the number of results displayed per page. Go to Admin  $\rightarrow$  Setup  $\rightarrow$  General setting, logo, modules names and choose the number of results you want to see per page.

**NEW!** You can now filter records by storage, you can either choose "No storage": this option shows all the records that has no storage, or "Any storage": this option shows all the records that were attributed to any storage. (See screenshot below).

Q Se All No Storage		Barcode
Any Storage Main location 504.01.R114	tit ™ Lab⊂ollector	Help Alorts
Arnaud Room Batiment full Batiment G3	Search by: Koyword Process ID D	Batch Process Add Batch Process Add
BatimentG1 BatimentG2 BatimentG4	Operator     ANC ▼     Stotus     Active ▼     Sort results by: Id     ▼     Asc ▼     ■ Strict search	Se Batch Process Ada
Na BatimentG5 BatimentG6 Bayer BCCRC 3rd Floor Wit Campol	Collopse search options ▲         Collopse search options ▲         End group:         Storage comment LKE         Date created         Date updated:           Any type ▼         Any Organism ▼         All contacts ▼         Any group ▼         Image: Contact = Cont	ö
N Dragon Lab FI F2 F3	et Stotus 💌	
All		
sample_type_2: Any	dsc test unit Filter Any Chanalysis Tab	

**NEW!** You can now filter records by process within custom modules for which the process tab was added. (See screenshot below).

Q Search for		Barcode
HB & C \$\$ Modules Tools Preferences Admin		Help Alerts
R BloodBank	Search by: Keyword ID	New Record
Modules / BloodBank	Q Ciear کے ل	® Batch Process Add
	Operator: AND V Statue: Active V Sort results by: Id VASC V Strict search	
	Collapse search options 🔺	
Name LIKE: Owned by: From group All contacts V Any grou		
With process. Filter None selected  Select Status	nyyanimat LIKE V	

# 8.3 Automatic relation between records

From each record you can find related information/data concerning this record present in other modules.

Click on the *Display all related records* icon (<sup>()</sup>), select the module in which you want to search and the prefix separator you used to list your data.

# 🛣 Tips / Hints

This function can be very practical to create and manage bio-banking but needs a special data organization using prefix separator.

Here is an example:



#### Patient 1= 1

First sample derived from patient 1 = 1-T1. In this example, we chose the dash to separate patients and samples.

First result derived from patient 1 sample 1 = 1-T1/S1. Here the slash separates samples and results associated to this sample.

1 result	s found	() Show/Hide all results on page			🔜 🎑
3		GoldCNC-01-CC			S 🖹 😢 🕞 📥 🖗 🎫 💞
Q	List rela	ted records stored in module: Chemical Structures	✓   use prefix separator: -	Submit 5	
R	Records	Found: 3			
	2	Record Name	Storage	Description	
۲	<b>P</b>	GoldCNC-01-CS			
-	2	GoldCNC-02-CS			
-	3	GoldCNC-02-CS-02			

- 1. Select record
- 2. Display all related results tab
- 3. Select module to find related records

- 4. Select separator
- 5. Submit

With this type of organization, a cross search with a well formatted request, you can find all related records from one module in a second module.

# 8.4 Primers and sequences cross-search

From primers, sequences or plasmids you can make a cross-search between modules to find primers that match or hybridize sequences. Locate the cross-search launch forms on each record.

Hybridize
17 nt overlap on 3' end Do
17 nt overlap on 3' end Do
IT nt overlap on 3' end

You can set the nucleotide overlap/matching limit on the primer 3' end.

This can be useful for primers containing tags or for detecting primer leakage. Furthermore, the search engine accepts the universal primer's degenerate code.

The result gives the list of sequences found (or primers depending on the way the search is performed).

CGTATCG SCATGCT	A Sequence Modules / Seque				Sear	rch by: Køyv	vord ID	Q	Clear	4	£		- Sin	<u> </u>	enBank Data
		Operator: A	NE 🗸 St	tatus: Active	~	Sort results b	oy: Id		✓ ASC	~	Stric	t search	SB	last new	sequence
						Expand searc	ch options 🔻								
	Sequences Matching Primer " (ATGTCGTDTGCTAGTGTN) Hit The "Back" Button Of Your Browser To Get Back To The Primers List														
4LT 5	nt overlap o	n 3' end Search ago	ain	Hit The "I		( ATGTCGTDT	GCTAGTGTN)		ers List						
	Sequence	n 3' end Search ago Hybridization Posit	_	Hit The "f		( ATGTCGTDT	GCTAGTGTN)		iers List						Map viev
Seq #	Sequence		ions		ack" Bu	C ATGTCGTDT	GCTAGTGTN)	The Prin		531, 9706	, 9723, 976	6			Map viev
Seq #	Sequence Name	Hybridization Posit	ions 0, 1083, 1876	5, 1913, 3420, 444	Back" But	CATGTCGTDT ( ATGTCGTDT itton Of Your Brow 5565, 6155, 6381,	GCTAGTGTN ) rser To Get Back To 6472, 6607, 6628,	, 7589, 8		531, 9706	, 9723, 976	6			
Seq #	Sequence Name KTB119	Hybridization Posit , 254, 395, 570, 587, 63	ions 0, 1083, 1876 ;59, 4927, 5	3, 1913, 3420, 444 025, 5428, 5619,	lack* But	( ATGTCGTDT itton Of Your Brow 5565, 6155, 6381, 5938, 6071, 6092,	CCTACTOTN) rser To Get Back To 6472, 6607, 6628, 6393, 7041, 7402, 6	, 7589, 81	947, 9391, 9	-	, 9723, 976	6			, MCC
Seq # 2 3	Sequence Name KTBII9 KS069	Hybridization Posit , 254, 395, 570, 587, 63 , 45, 558, 1336, 2877, 48	ions 0, 1083, 1876 559, 4927, 51 145, 5073, 5	3, 1913, 3420, 444 025, 5428, 5619 1441, 5539, 5940	lack" But 11, 5102, 1 5845, 5 , 6133, 6	<b>ATGTCGTDT</b> atton Of Your Brow 55665, 6155, 6381, 5938, 6071, 6092, 3353, 6444, 6579,	GCTAGTGTN ) reer To Get Back To 6472, 6607, 6628, 6393, 7041, 7402, 5 6600, 8743, 6895,	, 7589, 8 9000	947, 9391, 9 895, 9471, 9	646					ACC ACC
Seq # 2 3 4	Sequence Name KTBII9 KS069 LBTB084	Hybridization Posit , 254, 395, 570, 587, 63 , 45, 558, 1336, 2877, 48 , 385, 560, 1075, 3391, 4	ions 0, 1083, 1876 159, 4927, 51 145, 5073, 5 13, 3395, 414	3, 1913, 3420, 444 025, 5428, 5619 1441, 5539, 5940 19, 5077, 5445, 5	1, 5102, 1 5845, 5 6133, 6 543, 59	<b>ATGTCGTDT</b> atton Of Your Brow 55665, 6155, 6381, 5936, 6071, 6092, 3353, 6444, 6579, 925, 6132, 6144, 63	CCTAGTON) seer To Get Back To 6472, 6607, 6628, 6393, 7041, 7402, 9 6600, 6743, 6895, 558, 6449, 6584, 61	, 7589, 89 9000 5, 7534, 8 605, 691	947, 9391, 9 895, 9471, 9 2, 7548, 89	646 06, 9482,	9657, 967				

# 苯 Ti<u>ps / Hints</u>

If you click on this icon you can access a graphical display of the localization on the sequence.

		Results							
Primer positions on your template sequence:									
	Sequence Size: 9780 nt								
		Direct Orientation							
Start	End	Primer motif							
249	254	gtgt[ACGT]							
390	395	gtgt[ACGT]							
565	570	gtgt[ACGT]							
582	587	gtgt[ACGT]							

## 8.5 Barcode search

LabCollector generates unique barcodes for any information stored in the database. Those codes can be read from any barcode scanner.

The barcode search engine has a search field that is always available on the top-right of the screen (with theexceptionofsomeadd-onmodules).



So anywhere in LabCollector you can directly access any specific record when you scan a barcode.



You can also access the contents of a storage box from the box's barcode.

### 8.5.1 Reagents and supplies specificities

The Reagents & Supplies module has some specific search features.

You can find items with the original product barcode using a barcode reader. If the barcode reference is different for each lot, enter the barcode reference of the new lot on the lot's reference field.

Then you can find lots directly from the module's keyword search field (you need to place the cursor in the keyword field then point the barcode reader to the product's barcode).

### 8.6 Wireless access (Mobility)

It is sometimes useful to get information near the storage source.

For example, you may want to have a content list and map of a box that you get in the freezer, and you have no computer nearby and don't want to go forth and back to get this information.

If your lab has access to a wireless network, you can use Palm, Pocket PC devices. You can even use PDA or smartphone devices that have a barcode scanner (or camera) and Wi-Fi networking support, providing quick and real-time access to data.

On the PDA device, use an Internet browser and get the page:

http://[IP or network address of server]/pda.php

This page is especially formatted to the screen size of PDA devices. You can do barcode searches and

storage manipulations such as removing tubes.

LabCollector supports use of tablets such as the IPad. You can switch between normal or PDA simplified screens.

For modern TOUCH devices you can try: http://[IP or network address of server]/touch.php

Remember to visit our page on Google play to find all our apps.

# 8.7 Exporting/Reporting

#### 8.7.1 Export data

If you need to share or print some information stored in LabCollector's database you can export it. You can export all or specific items, as the export action is linked to the keyword's search engine. On the top of the

search result list, you have a report icon rianglephi .

You can choose the export format (for all modules: html, CSV, XML, PDF, Excel; Sequences module: GB, FASTA; Plasmids module: GB; Chemical Structures module: SDF), you can also choose the fields that you want to export and their order in your final file.

Moreover, if the super-administrator has created an  $\square$  section 3.1.7 export model, you can select it from the list.

	Reagents & Supplie	S		
Export Model			~	Export HTML
	Export Format			
HTML V Fast processing export to	hat will print, in the browser, the re	esult in a HTML table		
Module Fields		Export Fields		
the design of t	Add All			
↔ Comments & Description				
↔ Name				
↔ Category	Remove All			
⇔ Seller				
↔ Seller Price				

Only the selected fields from the search results will be exported (to export all data, perform a blank search and add all fields).

In the Reagents & Supplies module, the exports include the risk icons and/or phrases.

#### 8.7.2 Storage report

You can also generate a storage report listing all the stored tubes. Go to *Tools*  $\rightarrow$  *Storage Browser.* 



Reports are performed for all modules or one specific module.

Reports for individual storage equipment can also be made. In the storage browser, select the desired equipment. Then choose the export view as either excel or onscreen.

Complete storage lis	sting report	t	
Antibodies	~ E	€ 🖌	
C	n screen list		Excel format

The content of individual storage locations may be exported as well. See the below example image.

Storage Browse	er	Complete storage listing report Antibodies V 🕒 🖄
Lab Storage Tree	<	Storage Browser & Manager
<ul> <li>A Main location</li> <li>Batiment full</li> <li>Cryotube</li> <li>Rack.1</li> <li>Equipment çéùàiû@</li> <li>Equipment full</li> <li>Liquid nitrogen tank NE</li> <li>Batiment G3</li> </ul>	•	Positions per drawer / stient / unlimited canister :       equipment with ^ capacities (nº. <ul> <li>-80°C</li> <li>Add QC Notification this equipment</li> <li>Add Notice to all samples stored in this equipment</li> <li>Add new drawer + a new box in "Cryotube"</li> <li></li></ul>
<ul> <li>分 BatimentG2</li> <li>分 BatimentG4</li> <li>分 BatimentG5</li> </ul>	-	Export All Content
> D BatimentG6		Complete storage listing report : 💿 to screen 🖹 🔿 to Excel/CSV 💀 Do

The content of individual storage locations may be exported as well. To do this, use the storage browser to navigate to the desired box/visotube/plate/shelf part. Click the icon and then select the print button.

Storage Browser		Complete storage listing report Antibodies
Lab Storage Tree 🛛 🗸	Storage Browser & Manager	, ,
<ul> <li>&gt; 价 Main location</li> <li>&gt; 价 Batiment full</li> </ul>	Type	
✓ ☐ Cryotube ✓ ☑ Rack_1	Size AI -> 110	
BAG	Storage Equipment Cryotube Tower/Drawer/Canister Rack_1 Position in Drawer/Shelf/Canister	
₩ hela > Lquipment çéùàîû@	Storage Temperature -80°C	
Liquid nitrogen tank NE	Box View List View	음 Print 💩 Add tube
<ul> <li></li></ul>	1 2 3 4 5 6 new new record A1 1 A2 2 A3 3 A4 4 A5 5 A6 6	7         8         9         10           ST-HeLa         ST-HeLa         ST-HeLa         Image: Compare the second

#### 8.7.3 Stock report

Go to **Admin à Storage**  $\rightarrow$  **Batch Lots Inventory**, click on the icon to get the complete list of stock/lots. A file is generated for download.



### 8.8 Printing records

Each record can be printed. Use the printer icon  $\stackrel{\square}{=}$  on the item you want to print. A new window identical to the export one opens. In the same way, you can choose fields and order in the print version.

A print model can also be selected (it must be pre-configured by a super-admin). You can add a signature line (select Yes).

The print out will include the record barcode.

							Record Printing
							Barcode
ID 🌲	Name cell	Owner	Creation Date	🖨 Last Update	🜲 Tube Cou		Printing
<b>C</b> 11	((215) 486 5) <i>Mixdes</i>	very new member	08-Feb-2012 17:47:23	09-Nov-2020 11:26:47	15 Tubes   3 St raws	🖉 🗘 🖄	₽ <i>∅</i> Ш ₪
15	ST-7303	Wanda Wong	30-Mar-2020 11:02:02	28-Aug-2020 16:30:33	6 Tubes	🖉 🗘 🖄	🕂 🖉 🛄 🛱

### **8.9 Linking records**

You may need to link several records to each other.

For example, you can link different reagents to a home-made culture media. Or, you can link sequence records to a sample.

You may also link a sample to a client, a reference manual to an equipment record.

The combinations of links are endless and unlimited. In some situations a link will automatically be made between records.

#### 8.9.1 Generic tab links

Links are displayed as tabs below record information fields.

	ts found [씏 Show/Hide all records on pag	1
ID 🌲	Name Referen addgene-plasmid-1072 51-sequence-259693	ces & Comments
۵	Creation Date	29-06-2020 16:03:30 (Last Update: 06-07-2020 14:29:52)
ß	Optional Unique Code	
:≡[	References & Comments	
() E	Features	Ecoli RaPID plasmid synthetic DNA construct
1	Associated Strain	
<b>1</b>	Map Image	
19 12 12	Owner	Esber Nathalie AgileBio Eslesber@agilebio.com
ĹĹ	Souche associée	Q Related records in "Strains & Cells"
	Alternate Reference	
		Hybridize
[	<ul> <li>CH: addgene-plasmid-10725F-sequence</li> <li>ST: MD/r-M8-231collule derived</li> <li>∅ Ø Ø</li> </ul>	Image: Toward and the second and t

To link records, you can use the linking option Add Link.

You will get an embedded screen to search for the record to link to. Simply search for the desired record in the appropriate module. A search list will appear for you to check the required record and click "*Add link*". The link will be automatically saved.

Links on a record are useful to jump to related records. Just click on the link(s) on a record to see the details of the related record. Click the black cross on the top right to exit record linking.

& Lin	nk Pick	ids	Search: Search
Rec	ords Fou	nd: 63	Add Link
+	ID	Record name	Description
	1	addgene-plasmid-107251-sequence-259693	E.coli RaPID plasmid synthetic DNA construct
	2	addgene-plasmid-35251-sequence-43060	MIGS4.1 (FF571) synthetic DNA construct
	4	addgene-plasmid-20781-sequence-213372	GFP.Cre empty vector synthetic DNA construct
	5	addgene-plasmid-60337-sequence-96618	PGAL synthetic DNA construct

You can see the full record relationship in a tree-like presentation by clicking on the link Open Treeview next to "add link" option.



This will open a popup which can be used to navigate between records and display the relations between records. Single clicking items will open the tree of the selected record. Double clicking will open the selected record.

1. LabCollector

Parents Max Level 2 🗸 Childs Max Level 3 🗸 🕞 🔍 0.94x 🔍 💮 🕂 🛃	Hide Archived
Legend:	
Root node	
Direct Parent Nodes	
Upper levels parent nodes	
Nodes from the same module as root	
Nodes that are archived	
All the other nodes	
Normal links     PLSPS1_J1_DC1-DNA ++	
····· Autocomplete links	
····· Custom links	
Ceregans, S036 PLSPS1_I_DCI-DIAASHPPED Ceregans, S036 PLSPS1_I_DCI-DIAASHPPED PLSPS1_I_DCI-D	e Saline (10X, pH 7.4) 🛶

#### 8.9.2 Custom field links

You have to first create appropriate custom fields through Admin  $\rightarrow$  Data  $\rightarrow$  Custom Fields. Custom fields can be set to autocomplete or link to other record custom fields.

To visualize these links in the Treeview just click on  $\mathscr{E}$  (custom links) or  $\mathscr{E}$  (autocomplete links). This will remove all records in the Treeview lacking the chosen links.

#### 8.9.3 Automatic relation

When you add some records with the same derivative name, LabCollector creates an automatic link.

To see this link, click on🧔.						
	18	8 (8) B458h			Bacillus	
	Q	List rel	ated records	s stored in modu	le: Samples	- Submit
	R	Records	Found: 1			
		ID		Record Name		
	N	76		B458h1		
	$\overline{\mathbf{v}}$					
	¢,					
	<b></b>					

For more information please refer to  $\square$  section 8.3.

### **8.10** Derived samples

From Strains & Cells, Samples, Animals, Chemical Structures and custom module records, you can directly

create derived samples by clicking on  $\mathfrak{V}$ .

A form will open to create a record in the samples module derived from the record you selected. For example in below image we derive a blood sample.

ក្តា	Samples		Search by: Keyword Process ID ID	New Record		
U	Modules / Samples	104	Q Clear & &	ିଞ୍ଚ Batch Pr	ocess Add	
			Filter on Memorized Items			
result fo	und   @ Show/Hide all records on page	<b>,</b>			<b>]</b>	
ID \$	Label 🗢 Sam	ple Type	Organism	\$		
<b>1</b> 04	Blood_A01 DNA			020	0 💷 🖫	
Q	Creation	Date 02-12	-2020 13:05:45 (Last Update: 02-12-2020 13:06:42)			
ß	C	Drigin				
ŵ	Sample	Type DNA				
	Patient N	lame				
Ĝ	Optional Unique	Code 12691	77108			
Ē	Comments & Descri	ption				

A new record is automatically created in the Samples module and a link tab appears on the record file to note the link between those samples. Below the new blood record has link to the parent sample.

Blood_A01_01     DNA       Creation Date     02-12-2020 13:08:19       Creation Date     02-12-2020 13:08:19       Sample Type     Blood_A01       Sample Type     DNA       Patient Name     0       Optional Unique Code     0       Comments & Description     0       Organism     0       Main Operator     NAL		\$ Sample Ty	ID \$
Origin     Blood_A01       Image: Sample Type     DNA       Image: Sample Type     DNA		D1_01 DNA	<b>1</b> 05
Image: Sample Type     DNA	020 13:08:19	Creation Date	۵
Patient Name       Optional Unique Code       Comments & Description       Organism	401	Origin	3
Comments & Description Corganism		Sample Type	
Comments & Description Corganism		Patient Name	Ŷ
Comments & Description Corganism		Optional Unique Code	¢
		Comments & Description	
Main Operator N NAL		Organism	1
	AL	Main Operator	2
Type of sample		Type of sample	8
SP: Blood_A01      Ø Add Link      S <sup>o</sup> Open Treeview		A01 🗖 🔗 Add Link 🛛 🐨 Oper	₹
			78

# 9. Order list management

#### 9.1 Ordering articles

The Reagents & Supplies and Primers modules are linked to an order management system (read <sup>1</sup>/<sub>2</sub>section 4.12.4).

This tool can simply be used to notify that articles need to be purchased or it can be a real order management tool.

According to your lab management needs regarding reagents orders, some of this information will be useful for you or not.

#### 9.1.1 Create budget accounts

Before using the purchase order manager, you need to define your lab budget accounts in LabCollector LIMS.

Reagents & Supplies Options (Add, edit,) Preferences/Reagents & Supplies Options (Add, edit,)												
	Use these fields to manage the chemicals, reagents or supplies families that you will use to categorize them. Manage also ordering options.											
ැඩි <mark>රි</mark> Ma	iin Options	Lot Management	🖁 Risks & Safety	í J	된 Orders							
				🗸 Chang	les Saved							
ିଲ୍ଟ Buc	dget acco	unts used for ordering 🛛 🗲		Ø	₩ Staff access to orders							
Check	to archive	budget(s)			O Staff sees all orders							
223:	20	00005		ð	Staff sees only own orders (staff+ sees all orders)							
254:	15	00000		Û	Update & Save							
256:		CT grant 1		Û								
257:		CT grant 2		Û								
Đ					🛱 Order requests approval 🔫							
		or			Approval is mandatory: O ON OFF							
	Load fi	rom CSV (one value per line. No veri	ifications made)		If yes, approve only on values >							
CV	Click Upl	oad To Choose File	Browse		Update & Save							
		Update & Save										
					🛱 Request editing after approval							
					Allow price editing: O ON OFF							
					Allow quantity editing: ON OFF							
					Update & Save							

Go to: Preferences  $\rightarrow$  Reagents and Supplies.

This "*Budget accounts used for ordering*" menu also allows you to manage the budget accounts needed to process orders. Use it to define a list of your budget accounts that will automatically be display on the order list manager.

To hide/delete accounts, check the box on the left and click on Update & Save button. They will automatically be removed from the list. To view hidden budgets, click on the icon in the top right corner.

There is also the option "*Order requests approval*" of enforcing approval on items which cost more than a certain amount. There are two possible thresholds – one which can be approved by any administrator (see screenshot above) and the second is approved by the manager of the budget (see section 9-1-2). Depending on the cost of an order request an email will be sent to either all administrators or to the budget manager informing them that there are item(s) to be approved in the order list.

#### 9.1.2 Budgets follow up

This tool will help you to manage all your budget accounts at any moment and plan monthly budget according to the initial budget amount.

Go to: Tools → Purchase Orders Management → <sup>L™</sup> Budget Follow-up

Before using this Budgets Follow-up tool, you need to configure it:

1. Add a new budget period by clicking on the corresponding icon.

	chase Order N	langgomont				+	
		ement / 🗠 Budget Follow-u	🛱 Budget Refs	Add New Budget Pe	eriod   → Import Budgets		
	🛱 Current Order List	🖹 Generate PO Forms	Past Orders	😂 Invoice Vault	🗠 Budget Follow-up	🗄 Manage PO Templates	
							🗟 Quotes Vault
<b>By bud</b> On Budg		to		Ö			Search! Clear

- 2. A pop-up opens. You need to complete the form in order to configure the budget period: select a budget, start and end dates, amount allocated, budget manager, approval threshold and group permission access. Click Save to add the budget period.
- To import budgets click on the icon next to Hinport Budgets

It's also possible to import a list of budget periods via CSV file via the Import Budgets button.

I→ Import Budg	ets								
	Import File Choose File No file chosen								
	Skip File First Line (In case of column headers)								
	Warning: The file must be a .csv with the following format:								
Budget, Start	Date, End Date, Amount Allocated, Approval Threshold, Manager, Group								
Budget, Mar	nager, Group and Approval Threshold are optional and can be empty								
Budget, Man	ager and Group can be imported either by ID or Name (budget name, manager name, group name)								
	Import								

3. Your created budget period is now available on the main screen. You can retrieve information that you enter in the form.

Purchase Order Management         Tools / Purchase Order Management / L2 Budget Follow-up										
							8 7	1 6 0	8 🖻 🗎	
<b>V By budg</b> On Budge		Date start:	to to	Ö				Search!	Clear	
With End s	tart:	to		<b>ager:</b> y Manager	Grou ✓ Any	<b>p:</b> group		*		
🗠 Budget Prov	isions Overview									
Budget	Start Date	End Date	Amount Allocate	ed A	Amount Remo	aining	Manager	Group		
200005	10-09-2020	10-09-2021	2,000.00		1,711.50		NAL		🗠 🎛 🔒	
		Grand Total:		2,000.00		1,711.50				

Once the budget period is defined, you can use follow-up tools:



This tool is the Monthly Budget Manager. You can use it to define a specific sub-budget for each month. Just replace the monthly amount by your customized data.



#### 1. LabCollector

Monthly Budget Manager							
Date	Budget						
09/2020	153.85						
10/2020	153.85						
11/2020	153.85						
12/2020	153.85						
01/2021	153.85						
02/2021	153.85						
03/2021	153.85						
04/2021	153.85						
05/2021	153.85						
06/2021	153.85						
07/2021	153.85						
08/2021	153.85						
09/2021	153.85						
Monthly Sum Defined Budget	2000.00 2000						
Dif	Savel						
	<u>Close window</u>						

This tool displays the budget follow-up for this period with what was spent.

### A Note

To see the spending on a budget, you need to process one or more orders in the Purchase Orders Management.

B This icon allows you to export the Budget Follow-up as an Excel/CSV file.

### 9.1.3 Put item in the order list

Records from many modules have an ordering icon:

		1 A A A A A A A A A A A A A A A A A A A	1.5							
ID	\$	Name	\$ Project Co	Category 🔷 🌲	resell_price 👙	Decimal Test	Test Autoco 🌲	Tube Cou	*	
C٦١	•	RIPA buffer	Insert WF	Buffers					9 R0 0 &	₽∥ <b>Ш</b> ₩
<b>D</b> 2		SDS2	Emilie-gestion colonie Bax	Cat	10			2 Tubes	I I V O &	₽∥Ш⊞
<b></b> 3		2NaCl		Cat				1 Tube	▣₽∥₽&	₽∥Ш1

If this icon appears [5] = the item is already in the order list (i.e. ordered). This icon gives a quick visual way to know that the item is waiting for delivery.

 $\overleftarrow{arepsilon}$  Put item in the order list. If this icon appears without  $\overset{[s]}{arepsilon}$  this means that item is available.

When you click on the ordering icon you get a pop-up window to define quantity/units, order urgency and suggested budget. Budgets are defined through **Preferences**  $\rightarrow$  **Reagents & Supplies** (see  $\frac{QQ}{Section 4.12}$ ).

If you select a suggested budget, a table opens to display budget details.

You can also add a comment for the people who manage orders.

1.	LabCollector

╠ Shopping	Cart options	
		Reaction reagent
Enter quantity:	1	
Urgency:	🔘 Urgent 🔘 Normal	
Comments:		
Suggested Delivery:	Select Ship To address 🗸	
Suggested Budget:	On Budget 🗸 🗸	
Quote:	Choose a quote 🗸 🗸	
	🕀 Add a quote	
		Submit

Once validated, the ordering request is entered in the order list.

Clicking on the 5 icon will take you to the order list. See the following sections for details.

#### **9.2 Ordering from other modules**

It is possible to use the order system from *Strains & Cells, Plasmids, Primers, Antibodies, Animals and Chemical Structures (molecules)* modules. Each record from these modules can be associated to and replicated into the Reagents & Supplies module.

Then ordering can be performed from within the Reagents & Supplies module as any other reagent or directly from the parent record.

 $\mathfrak{W}$  This icon lists the lots as from the Reagents & Supplies module directly into the parent module.

<b>C</b> 1	((215) 486 5) <i>Mixdes</i>
<b>1</b> 5	ST-7303
اگر اگر	Creation Date
€× €∕∕	Optional Unique Code
¢,	Comments
	Genotype
	Organism
₽ ⊘⊐•	Owner
@) []	Secondary Owners

This icon gives access to ordering and reagent information taken from the Reagents & Supplies module directly into the parent record.

When no reagent association has been defined a prompt will be provided for it. It can create an automatic entry in the Reagents & Supplies module or you can indicate which existing reagent record to use with this record. (See figure below).



#### 9.3 Purchase order list management

Through the Purchase Order Manager, you will be able to manage an order, to order reagents and products directly from different sellers (Sigma, VWR, Life Technologies, Qiagen and Storage Accessories), to manage and generate PO forms, to manage lots and invoices.

See our KB: Purchase order management.

Go to Tools  $\rightarrow$  Purchase Order Management.

			🗟 Quotes Vault 🛛 🗮 Curre	nt O	der List	🖹 Generate I	PO Forr	ns PO to Sellers	Past Ord	ers 🗐	nvoice Vault	≌ Budget Follow	-up 🗎 Manage	PO Templato
						Collaps	se searc	h options 🔺					Filter	List! Clear
Fro	m catego	ry:	From seller/dealer:		PO numbe	er / PO alt is:	B	idget account is:	Status is:		Approval	is:	Filter	Ciedr
Al	l categor	ies 🗸	All sellers	~	Any PO	PO					✓ Any	~		
Rec	quested b	y:	Ord	ered	By:				Urgen	cy:	Request	date is prior to:		
Ar	nyone		✓ Ar	yond					✓ Any		×	8		
Clear	r All Entries	Do!												
9	-	nd Supplie		~			QTY		Seller	Item		E-ORDERI		
9	agents a Cancel	nd Supplic	s: order	K	Delivery	Name	QTY (Units)	Price	Seller (Brand)	ltom Ref.	Roq.dato	E-ORDERIN Req. by	NG TOOLS	Order.by
void	Cancel					Name (686) Test Import 12		Prico 55.00 (Total:22,000.00)		Ref.	Roq.date			
void ) #500		▲ ★	order 23-Sep-2020 14:25:45	~	,	(686) Test	(Units)		(Brand)	Rof.		Req. by	Appr. by	Wanda Wa
Void () #500 () #501		▲ ★	order 23-Sop-2020 14:25:45 P0: 201700028282 (P0 ort: ) / Budget Budget Ghalia B 29-Sop-2020 10:55:31	~	0	(686) Test Import 12 (685) ST-	(Units) 400 1000	55.00 (Total:22,000.00) 35.00 (Total:35,000.00)	(Brand)	Rof.	10-Jun-2020 17:11:56	Roq. by Wanda Wong	Appr. by admin@roup1_1	Order.by Wanda Wa Wanda Wa
/oid ) #600	Cancel Cancel	い ・ 受 ・ 受 の	order 23-Sop-2020 14:25:45 P0: 201700028282 (P0 ort: ) / Budget Budget Ghalia B 29-Sop-2020 10:55:31	~	0	(686) Test Import 12 (685) ST- 7332	(Units) 400 1000	55.00 (Total:22,000.00) 35.00 (Total:35,000.00)	(Brand)	Ref.	10-Jun-2020 17:11:56	Roq. by Wanda Wong	Appr. by admin@roup1_1	Wanda Wa

On this order list you can see your "Reagents and supplies orders" and your "Primer synthesis orders".

The order list can be exported to Excel in the same manner as for  $\square$  section 9.3.

### A Note

Depending on your permission level, you may only be able to see your own orders list. To view, search and filter all the orders lists you need to be logged in as an administrator. This is also subject to the permissions of your group.

#### 9.3.1 Manage an order

The Order Management process flow is as follows:

Item order requests →Cancel or Approve items → Assign PO number → Generate PO Document → Order by sending PO to Seller → Receive Delivery or Cancel order

1. Once items have been added to the order list they can be approved or canceled. Approval of an item depends on the total cost of the item (see sections 9-1-1 and 9-1-2). Once approved the requester will

be notified by email. Add items that you want to order by clicking on <sup>O POC</sup> and write the internal PO number or use <sup>#</sup> to create one. PO number assignment remains optional.

	#522	PC:  PC alt Budget Ghalia 3  Discount %	(751) 289217047 者	0.00 (Total:0.00) 🖉		23-Sep-202014:35:14	Wanda Wong 🗙	Wanda Wong	
POı	numbers		<i>c</i>						
		Go to: Admin $\rightarrow$ Pre	ferences	→ Reagen	its and	l Supplies			
		ੇ⊒ PO number editing							
		Allow change on current orders: ()	ON OFF						
			Update & S	ave					
	Note								

All items sharing the same PO number are gathered on the same PO form. PO numbers cannot be reused after a PO has already been formatted

2. Each ordered item can be assigned to a budget reference.

## A Note

You can manage budget accounts through *Preferences*  $\rightarrow$  *Reagents* & *Supplies*  $\rightarrow$  *Budget*. Budget assignment can be made mandatory in *Preferences*  $\rightarrow$  *R* & *S*  $\rightarrow$  *Associate budget to order*.

320: budgét A	₿	
320: budgót A	⋳	

- 3. If you have a discount on your product purchase, you can add it by filling Discount: 6 % icon.
- 4. When your purchase order is done click on Process Selected Changes

Clear	Clear All Entries Do!							
Rec	Reagents and Supplies:							
void	Cancel	ഗ്	order					
#500	0	✔ 😓	23-Sep-2020 14:25:45 ♂ PO: 201700026262 (PO alt: ) / Budget: Budget Ghalia 🗎					
#501	0	✔ 👳	29-Sep-2020 10:55:31 & PO: 201700026270 (PO alt: ) / Budget: Budget Ghalia					

# 🛣 Tips / Hints

You can clean the whole list using "clear all". Items go directly to "Past orders" if you confirm your action.

If you use the Budgets Follow-up tool, once orders are requested, the amount will be added to this tool.

To do another order, use the same process.

4. You can also manage the delivery by clicking on delivery when your products arrive. Then, click on

				r Manag		nent nt order list managemer	nt				Add New Re	agents & Supplies R	ecord
	₿ Quotes	Vault	₿C	urrent Order Li	ist (	🖹 Generate PO Forms	C PO to Se	llers [	Past Orde	ers 😂 Invoice Vaul	t 🗠 Budget Follow-up	🗄 Manage PO Temp	lates
TT Deliv		have be	en m	arked as receiv		<b>Thew items re</b> dit below if the delivery i		ı want t	o define the	new stocks/lots, othe	rwise just skip this step.		
lgnore Batch	Batch Hold	Partial		ltem Name	Ref.	Quantity	Validity Date	Barcoc #	de/Batch	Comments	Storage Location		Fuse to Lot
				(686) Tost Import 1		400 x Units V	(yyyy-mm-dd)		#		Select the storage	~	N/A
Optional a	dditional er	mail cor	nmer	nts:									
						Generate all barco	de labels for n	new lots	s 🔲 Use Lo	t number as barcoc	le		
		/	All do	ne? 🔘 No 🔿	) Yes	(select yes ONLY when	all barcodes	have b	een scanne	ed to avoid unwante	d automatic submission	)	
									os Or Skip 1	this step			
higher than ( Note: Storag	or equal to w je places are an choose to	hat was o defined t fuse with	ordera or ea an ex	ed. ch product and t isting lot (replen	then a ish). N	issociated to each lot/stoc lew batch number, validity	sk.				delivery. This option will be ig atch.	nored if quantity entered	is

- "Ignore batch": check this if you do not want to register the lot/batch.
- "Batch Hold": check this box if you wish to keep the batch in quarantine.
- "Partial": click on it if some items are on partial delivery, you can check it and enter the received quantity. The remaining difference will be stored for future delivery. This option will be ignored if quantity entered is higher or equal to the amount ordered.
- Click on the checkbox under the envelope to send an email to the requester to alert them that their order has arrived.
- You can add item "Validity date", "Barcode/Batch" and "comments".
- You can also define "Storage location" and fuse this new lot with an existing one.
- "All done?": choose between NO or YES (when all barcode have been scanned to avoid unwanted automatic submission).
- If you don't want to fill out this form you can "Skip this step".
- 5. Once order is marked as "Delivery", it is removed from order list and placed into the database.

Past Orders This menu will give you access to browse or search the past orders history. You can also check for canceled orders. You can review PO forms and prices by order date. Several filtering options are available, including a free text keyword field and a date field to make a search on a defined period.

Mod	B /	3 口 钟 ols Preferences Admin						LabCollecto	r						Help Alerts	
÷	Purcl	hase Order Management														
						₿ Quotes	Vault 🚡	? Current Order List 🗐 G	enerate PO Forms	😰 PO to	Sellers Past	Orders 😵 Invi	bice Vault 🗠	Budget Follow-up	🖹 Manage PO	Templater
									Q (Limit results to	50)	_	_				
							Hide ca	nceled orders  Reagents	s OPrimers							
								Collapse search options 🔺								
	rom categ				ludget acco Any budget		/ PO alt is		Order date ran		pick date from:		to:		0	
	All categori				, .	✓ Any PO		1-9		•	pick date from:		- to:			
	equested I Anyone	ay:	~	Any or				Received     Any one				~				
R.	leagents a	nd Supplies:														6
incel		order	D	elivery	Invoice(s)	Name	Qty (size)	(brand)	Price	Item Ref.	Req.date	Req. by	Appr. by	Appr.date	Order.by	Receiv. I
¥522	Ø D0	09-12-2020 21:05:36 PO: 201700026297 (PO alt: ) / Budget: Budget Ghalia 3	S	12-2020		289217047	1		0.00 (Total:0)		23-09-2020 14:35:14	Wanda Wong	Wanda Wong	23-09-2020 14:35:35	Wanda Wong	Wanda Wo
		02-12-2020 17:07:24 PO: 201700026296 (PO alt: ) / Budget: Budget Ghalia	100	12,2020		1884735236	1		0.00 (Total:0)		19-11-2020 15:15:02	Wanda Wong	Wanda Wong	02-12-2020 17:07:12	Wanda Wong	Wanda Wo
652	000	8	113	(66)												
		17-11-2020 16:39:16 PO: 201700026295 (PO atc ) / Studget: Budget Ghalia		222020 2222020 232525		1418899906	1	Cristina Amil (Agilebio)	0.00 (Total:0)		17-11-2020 16:37:44	Wanda Wong	Wanda Wong	17-11-2020 16:38:10	Wanda Wong	Wanda Wo
K551	000	17-11-2020 16:39:16		12-2020		1418899906 385988240		Crissina Amil (Agilebio) ALS Sellér	0.00 (Total:0) 50.00 (Total:50)		17-11-2020 16:37:44 13-11-2020 17:43:56			17-11-2020 16:38:10 13-11-2020 17:44:20		

# Note

Records from Reagents & Supplies module cannot be deleted if present in order list (past or current)

# 9.3.2 Order directly from Sigma, VWR, Life Technologies, Qiagen and Storage Accessories

LabCollector allows you to order your supplies directly via Sigma, VWR, Life Technologies, Qiagen and Storage Accessories. This E-ordering tool has direct punch-out orders to suppliers. To do that, put your items in the order list as above and go to the Purchase Orders Management menu.

# A Note Before using this service, you have to define your account settings through "Preferences à Reagents and Supplies" (U) section 4.12).

In this menu, there are 5 buttons that you can use to order directly:

• Sigma Aldrich:

	ACCOUNT:		
	SENDER ID:		
	USERNAME:		
	PASSWORD:		
SH	ARED SECRET:		
	Bill To ID:		
C	Country code:		
	Currency:		
🖓 Shi	p To ID		
[3303]	Shipping ID:		Ŵ
	Easy Name:		
Đ	SAP ID:		
U	Easy Name:		
	TEST MODE:	(check to use the test server)	

Complete this form and click on *Generate File and Send Order*. Your order will be sent directly to Sigma Aldrich.

• <u>VWR:</u>

	VWR email	editestf.mail@eu.vwr.com
	CLIENT CODE:	
	Sold To ID:	
	Currency:	
🖗 Sh	ip To ID	
~	SAP ID:	
Ð	Easy Name:	
	TEST MODE:	(check to use the test server)

Complete this form and click on Generate File. Your order will be sent directly to VWR.

Life Technologies:

	NETWORK ID:	
	Bill To ID:	
	Country code:	
	Currency:	
°₽ Sł	nip To ID	
A	Shipping ID:	
$(\pm)$	Easy Name:	
	TEST MODE:	check to use the test server)

Complete this form and click on *Generate File and Send Order*. Your order will be sent directly to Sigma Aldrich.

• Qiagen:

Complete this form and click on Generate File and Send Order. Your order will be sent directly to Qiagen.

QUAGEN (	Account se	ttings	
Q	iagen branch:	France/Benelux	~
C	rdering entity:	A1234444	
℃ SH	IP To		
[3304]	Shipping Ref:	AgileBio	] 🔒
	Shipping Info:	Creteil France	
A	Shipping Ref:		
Ð	Shipping Info:		
🛱 BILL	То		
[3305]	Billing Ref:	AgileBio	] 🔒
[0000]	Billing Info:	Creteil France	
	Billing Ref:		
Ð	Billing Info:		
	TEST MODE:	(check to use the test server)	
		Update & Save	

#### <u>Storage Accessories:</u>

	Account ID:	4
/	Account Email:	contact.jdossantos@gmail.com
	Billing ID:	5
	Country code:	FR
	Currency:	EUR
℃ Sh	ip To ID	
[189]	Shipping ID:	5
[100]	Easy Name:	Addresse 1
	Shipping ID:	
Ð	Easy Name:	
	TEST MODE:	(check to use the test server)

Complete this form and click on *Generate File and Send Order*. Your order will be sent directly to Storage Accessories.

# 9.3.3 Manage PO templates

LabCollector uses templates in order to generate a dedicated PO that follows your company or institute guidelines. They can either be HTML or Excel files.

Simply navigate to: Tools  $\rightarrow$  Purchase Orders Management  $\rightarrow$  Manage PO Templates

The table below lists all pointers recognized by LabCollector:

TAG	Replacement action in template				
##date##	Inserts date (yyyy-mm-dd)				
##date_dd-mm-yyyy##	Inserts date (dd-mm-yyyy)				
##date_mm-dd-yyyy##	Inserts date (mm-dd-yyyy)				
##items##	Inserts ordered items list (table with name, seller				
##Items##	reference, quantity and unit price)				
	Inserts ordered items list (table with name, seller				
##itemsandrequesters##	reference, quantity and unit price) + indication of				
	users who ordered/requested				
##total order##	Total amount of the order (sum of the item prices				
	x quantity)				
##quote_number##	Inserts QUOTE number				
##po_number##	Inserts PO number				
##order_by##	Inserts name, email and tel of the person who				
	ordered (place it on each item line) XLS*				
##po_number_barcode##	Inserts PO number as barcode				
##comment##	Inserts comment				
##budget##	Budget account reference (global)				
##budget_line##	Budget account reference (for each item line)				
	XLS*				
##chem name##	Item Name XLS* (name or ref are mandatory top				
	column)				
##chem_ref##	Item reference <b>XLS</b> <sup>*</sup> (name or ref are mandatory				
	top column)				
##cas_number##	CAS XLS*				
##qty##	Item quantity XLS*				
##item_pack_size##	Item packaging size XLS*				
##chem_seller_price_original##	Unit price XLS*				
##chem_seller_price##	Unit price discounted XLS*				
##chem_special_code##	R&S Code XLS*				
##discount##	Discount rate XLS*				

##brand_name##	Brand name XLS*				
##seller_company##	Seller company name				
##seller address##	Complete seller mailing address (Name,				
##Sellel_addless##	company, street, post code, city, country)				
##seller_email##	Seller email				
##seller_tel##	Seller telephone number				
##seller_fax##	Seller fax number				
##{custom_field}##	Replace {custom_field} by the database name of				
##{cusion_neiu}##	custom field of type TEXT XLS*				

\*XLS : Applies only to Excel templates.

### HTML templates:

- Manage html templates Click on (located on the top right corner), to see all your HTML templates, you can also create new ones, edit/delete already existing ones.
- Templates are coded in normal HTML language, specific LabCollector pointers/tags can then be implemented to add dynamic information. Simply place these pointers (listed above) anywhere in the template where you need the corresponding information to appear.
- Click on the red trash bin icon III to delete a template. .
- Click on the blue magnifying glass icon do preview your template.



# **Excel templates:**

- Manage Excel templates
- (located on the top right corner), to see all your Excel templates, Click on you can also create new ones, edit/delete already existing ones.
- To add a new Excel PO templates, simply fill in the "Template name" and add a "Short description".
- Click on the red trash bin icon it to delete a template.
- Click on the blue arrow icon  $\stackrel{4}{\smile}$  to download a template.

Purcl	hase orders templates:	
#	TEMPLATE NAME	Short description
3	XLS PO	Windows COM - Use for signed spreadsheets) 🗹 (Generic)
4	xis po 2 🔟 💆	Windows COM - Use for signed spreadsheets) 🗹 (Generic)
7	х. 5 РО 3 🔟 👲	with order_by tag           Windows COM - Use for signed spreadsheets)         (Generic)
9	palladino 🔟 👲	test       (Windows COM - Use for signed spreadsheets)     (Generic)
21	ksilinktost9 🔟 💆	kalinktest3 ☐ (Windows COM - Use for signed spreadsheets) ☑ (Generic)

# 🛣 Tips / Hints

- Place tags as cell names in Excel templates. Data needs to be inserted as follows: For example, ##seller\_tel## needs to be written as 'seller\_tel'.
- Choose Excel engine. For simple Excel templates, use "Generic". For complex Excel templates (with macros, protections, signatures ...), you must use "Windows COM" library. This requires MS office to be installed on the server.

### A Note

Item Name (##chem\_name##) and item Reference (##chem\_ref##) tags need to be inserted at the top of your XLS PO templates.

#### Warning

Name the excel sheet as: LabCollector Pay attention to the uppercase of the L and C, since is case sensitive.

You can also find an option to activate automatic emails that will be sent directly to sellers (located at the bottom of the page). Plus, you can configure your own PO template email as you require.

Purchase Order Template Email
X P 値 値 (▲ → ) ◎ ・ ● ■ ■ ■ ■ □ Ⅲ ■ Ω X Q D Source B I U S × <sub>2</sub> × <sup>2</sup> I <sub>x</sub>   ≔ ≔   非 非 199   主 主 ≡   Styles -   Format -   Font -   Size -   <u>A</u> - [ <b>A</b> -] ?
This purchase order is sent by LabCollector.
##order_by## 234
$\frown$
Acti
Templat ##po_c placed by the respective PO Number
Activate emainsent to sellers in PO to sellers, with PO form attached to the email
Save Template

### 9.3.4 Generate PO forms

#### 1. Do your order by following $\square$ section 9.1.3.

2. Click on Generate PO Forms

PO Number	Supplier	Budget(s)	Format PO with Template
201700026296		Budget Ghalia	Choose template to apply 🗸 Extra comment
	ΔT	he following PO(	s) have a problem and cannot be processed. Please fix them in the order list. 201700026271
		Apply sa	me template to all unformatted PO: Choose template to apply 💙
		All Excep	t manually selected PO above
			Process Selected Changes Reset
		Noto: Th	is action is definitive and cannot be changed later. Proceed with care.

3. Choose the PO template you want to apply to your purchase order. You can also add extra comments.

If you have several POs that are not formatted you can choose to "Apply same template to all" by checking this case.

# A Note

PO numbers that have been assigned to items with different sellers cannot be processed. Ensure you have only items for the same seller included in a single PO.

- 4. Click on "Process selected changes".
- 5. If you want to download and see your purchase orders go back to your "Current Order List" and click on

2	A	В	C	D	E	F	
	Bon de	com	mande				
L							
2		Factura	tion	Livraison:			
3		AgileBio	comptabilité	A L'ATTEN	TION DE XX	x	
1		16 quai	Jean-Baptiste Clément	AgileBio			
5		94140 /	LFORTVILLE	Adresse			
5		Tel:					
7							
B				Tel:			
9				Mail:			
	N° bon de con		4	Fax:			
-	Références de	vis:		۲			
2	Fax comma						
	Fax comma Fournisseu		TEBU				
4 5	rournisseu	r:	TEBO				
	Article	Quantité	Description	% de remise	Prix unitaire	Prix total	
6					H.T.	H.T.	
	4567	1	KCl (Sigma Aldrich)	0	0	0	
8	1234556	2	DMSO (Sigma Aldrich)	10	90	180	
9	67854	1	NaCl (TEBU)	0	50	50	
0						0	
1						0	
2						0	
3						0	
		_				0	

Example of Excel PO form after automatic formatting.

### 9.3.5 Lots management

When you order items it is useful to trace each lot. You can manage quantities and expiration dates in this way.

Users can also add and edit comments on lots to provide notes on quality assessments for the reagents used in the lab. User and date stamps are also stored each time a unit is removed to give some view on the product usage rhythm.

Click on the left part of the record data you wish to list and manage the corresponding lots. Lots can be searched for by original or LabCollector assigned-barcodes.

# 🚹 Note

Lots can only be edited/removed following the rules chosen in Reagents & Supplies preferences. Lots must have original barcodes entered for a search on the original barcode to work.

ID 4	Name 🌲 Projec	co Category 🖕 resell_price 🖕 Decimal Test 🖕 Test Autocom
<b>5</b> 1	RIPA buffer     Insert V	Buffers $\partial$ tost_autocom plete $\Im  vert S \ D \ A \ D \ W \ W$
20 28	Reagents & Su	plies Save × Cancel Keep on Hold (Quarantine)
	Lot Number/Barcode Expiration Date Quantity * Comments	# Today unit (Alerts only work on plain units) (Alerts only work on plain units) (Alerts only work on plain units) Styles - Styles - Styles = Styles = Styles - Style
	Associated File/Report	Browse
	Storage location	Select the storage

You have the ability to add a comment in the "current active lots" section for any record inside R&S. (See screenshot below).

ID	\$	Nome		\$	Comments & Description		🖨 Categor	y .	Sollor	CAS Number	÷	
<b>2</b> 1	- E (	NaCl					Roagent	1			₽∥₽≛	8000
۵	T Current	active	lots									
B	DID		Entry Date	Expiration	Lot #		Qty Start Qty Storage	omments				
Q	20/LT		25/05/2022	№/08/2022	24834239	15	🗄 👘 🛐 15.00 🧷 Room_4 > Cupboard 01 > Shalf_B > Part B					20
	18/LT		24/05/2022	A 27/08/2022	1023439392	50						
T	16/LT		23/03/2022	09/03/2028	1305072279	10	1 👘 🛱 10.00 DRoom_4 > Cupboard 01 > Shelf_A > Part A					
\$ 11 0 0 the	1 Merge Select	ed	Add new lot   🗐	) full list								

Lot management is linked to the alerts system. See the chapter on  $\square$  section 4.2.

For additional information, please see the  $\bigcirc$ KB: lot management and  $\bigcirc$ KB: for lot disposal.

**New!** In *Reagents&Supplies* model you have specific status that you can select when you create a lot. For instance: i) On Hold (Quarantine); ii) Reserved; iii) In Production.

🖬 Save	× Cancel
S Keep on Hold (Qu	arantine)
<b>a</b> 1	Reserved
😫 In pr	oduction

#### 9.3.6 Manage Invoices

In the Purchase Order Manager, you can manage invoices through the "Invoice Vault" tool:

To save an invoice, you need to:

1. Click on the "Add invoice" button.

	Drder Manage der Management / ⊗ Invo		nciliation			Add Invoid
🛱 Current Order List	🗄 Generate PO Forms	🖄 PO to Sellers	Past Orders	😂 Invoice Vault	🗠 Budget Follow-up	🖹 Manage PO Template
						🗟 Quotes Vaul
V By budget Ref:	With order date:					
On Budget 🗸 🗸	from 2018-11-14	📋 to 2020-12	2-03	1		Search!
PO is:						
	(may be partial. Autocom	nplete field)				

- 2. Fill out the form with your information: PO number, Seller invoice number, Invoice Date, Real invoice value (that will replace order lists amount see <u>section 9.1.2</u>) and import an invoice scan.
- 3. Validate by clicking on the "Update" button.

Your invoice and notifications are now saved in LabCollector database and displayed in the budget followup tool.

If needed, you can use the search engine to find what you are looking for.

#### 9.3.7 Primers specific ordering management tool (synthesis order)

Primers can be ordered like any other reagent (see above) or be ordered through the specific ordering icon.

This icon inserts an ordering request on the primer synthesis order list.

This icon means that a synthesis order has been placed and links to the order list.

The synthesis order list looks the same way as for reagents, but includes the sequence and eventual primer labels. Primer supplier is not mentioned as it is usually unique for all the lab or institution. It also does not generate lots.

#### Tools → Purchase Orders Management

Clear												
Pri	Primer Synthesis Orders:											
void	Cancel	ø	order	ଜି	Delivery	Primer name	Sequence (5'-3')	QTY	Req.date	Req. by	Appr. by	Order.by
<b>●</b> #m	0		02-Jan-2020 13:50:40 Po:201700026154 (Po alt: ) / Budget: Budget Ghalia	~	0	(3) Novo Doc 🕗	ААААААААААААССССССССААААААА.	1	28-Feb-2017 00:00:00	Wanda Wong		Wanda Wong

# **10. Tools**

#### **10.1 Storage Browser**

For detailed information please read  $\blacksquare$  section 6.

#### **10.2 Barcode Label Series**

LabCollector offers the possibility to print several barcode labels at once.

Please read our **KB**: on compatible printers with LabCollector.

With the Memorize Records functionality, you can search for records in a module, click on the memorized items icon and go to **Tools**  $\rightarrow$  **Barcode labels series** to print a batch of barcodes. Record IDs are automatically added to the barcode labels series. If you don't want to use these records, click on clean and select other records.

Please read our KB: on how to configure a printer with LabCollector.

For Brady and Zebra printers you can use a "Raw Network bridge" utility by LabCollector in order to connect to the printer.

Please check our KB: on how to connect to a USB printer.

#### 10.2.1 Generic printing

• Generic printing:

]   ]	Barcode labels series										
Barc	ode labels editor										
	Generic printing A4 printing Direct EPL printing Dymo printing	Numbering:      A     I.1 Range from to     or     specific numbers (ax 53734) / generate random numbers									
		Generate       to       random numbers       Clean         1.2       Data Source: ^            © LabCollector series in module Select Module									
	2	1.3         Copies of each labet         Image: Imag									
		Barcode On 1st Column:     Use unique code instad (custom)     Include record name      5 font size     Include iste     Separator / ~      Include ist line         + Select Field v only for LabCollector series.									
		Include 2nd line  Select Field  Only for LabCollector series.  Include 3rd line  Select Field  Only for LabCollector series.  Select Field  Only for LabCollector series.									
		Include comment line									
		No barcode     ID only (no barcode/no name)     Imil 1D symbology     ZD symbology Save selected options as a template Save									
		5 Barcode On 2nd Column: 🗸									

- 1. Choose your numbering option (continue or discontinue list or generic series).
  - 1.1. You can choose the range of the records ID or specific numbers or you can generate random numbers.
  - 1.2. Here you can choose the series from any module in labCollector. You can choose to skip deleted records or from memorized records or a generic series with a prefix. NEW!: Now you can also skip the barcodes for deleted records.

## 🔭 Tips / Hints

You have the possibility to manage and print all memorized items at once. (As shown in the screenshot below).
#### 1. LabCollector

		All records in memory:							
		Choose Action	✓ Dot						
		Title of record in memory	Vial ID	Record ID from Modul					
		record of StaffGroup2_1		24801 Samples	Ø				
		job Box General Record		24802 Samples	2				
	4	1 Test Some Changes		7557 Strains & Co	a ()				
		test als 21042021b		7554 Strains & Co	• 2				
		24811	📑 A7550	24811 Samples					
		24811	😅 A7551	24811 Samples					
		24811	📑 A7552	24811 Samples					
		24811	😅 A7553	24811 Samples					
		24811		24811 Samples					
Barcode	labels editor	Choose Action	👻 Dol						
			_						
	Numbering: 🔨						Ŧ	÷	
_	Range from to								
-						24811			
	or								
	specific numbers (ex: 5,17,34) / generate r	andom numbers				A7550			
₿									
059						24811			
	Generate 10 random numbers	Clean							
						A7551			
	Data Source: 🔨								
						24811			
	<ul> <li>LabCollector series in module</li> <li>Select Module</li> </ul>	×							
	Skip deleted records					A7552			
	or 💆					24811			
	From Memorized records (9 records in memorized records)	ory) Aliquots 🗸							
	-	Select Module				A7553			
	or	Strains & Cells	· .			A7553			
	Generic series with optional PREFIX	Samples							
		Aliquots				24811			
						A7554			
	Copies of each label: 1 Include copies sub	numbering	_						
	(ex: 1/5, 2/5, etc. This adds to comment)								1
			_						

- 1.3. You can choose how many copies of the label you need.
- 2. Here you can create or select the template associated with the label. To create the label template click on the ^ icon, and you will see the below drop-down. \*In the below example we have created the fields for example purposes.

	Select Label Template Barcode Bro	idy 🗸 🔋 Label Type Keeper	<ul><li>→ ⊕ 2.7</li></ul>
		Barcode On 1st Column:	
2.1	Use unique code instead (custor	n)	
2.2	Include record name 🖉 5	font size	1 line height
	5 ID font size		
	Separator / V		
2.3	✓ Include 1st line	Keeper 8 5	font size
		+ Select Field   Only for LabCollector series	
2.4	Include 2nd line	Creation date 25	font size
		+ Select Field   Only for LabCollector series	λ.
	Include 3rd line	Position 8	font size
		+ Select Field  Only for LabCollector series	L
2.5	Include comment line	85	font size
2.5		+ Select Field   Only for LabCollector series	
2.6	No barcode		
	O ID only (no barcode/no name)		
	ID symbology		
	O 🔀 2D symbology		
		Save selected options as a template Save 2.8	

- 2.1. You can choose to use the unique LC code of your record within the first column.
- 2.2. Here you can choose to include the record's name and even choose its color, font size and line height.

#### INote

The maximum line height you can set for 1D barcode is 3.

- 2.3. You can choose the 1st line options with the field you want + 1 field of choice from the drop down with its color and font size.
- 2.4. Here you can check the box to include a 2nd line and choose the field you want + 1 field of choice from the drop down with its color and font size.
- 2.5. This option includes a comment with the field you want + 1 field of choice from the drop down with its color and font size.
- 2.6. Here you can choose whether you want no barcode, an ID only or you want a 1D or 2D barcode.
- 2.7. You can choose the labels. You can add new labels with the sign or Admin  $\rightarrow$ Other  $\rightarrow$ Setup  $\rightarrow$ Printer & labels.

See our KB: how to add label types.

2.8. Once you have added the option of your choice you can click on save the template and you will see the below pop-up to name the template. You can also choose to set the template by default. Once you name it you can click on save.

Provide a template name	×
Barcode Brady	Set by default
	Close Save

- 3. Here you can select or add the labels.
- 4. The choice of template you made in point 2, will be the barcode one where you can select to add the record name with color and font size and if you want a barcode or 1D or 2D barcode.
- 5. You can choose 2 barcodes by selecting the barcode. You can choose the name of the record or duplicate the information from barcode on 1st column.
- 6. You can click here to print the pdf. See the example image below. The settings are same as the *point 2* image above.



**NEW!:** You have the option to include the project code of your record when label printing, you must first enable the "project code" field in your module, by going to "*Admin -> Custom fields*", when you are ready to print your record label, all you have to do is include the project code as a line within your label.

**NEW!:** You also have the ability to add the main storage box positions, main storage box, box details and even box ID to your labels, by simply selecting the corresponding field in any of the lines.

#### 10.2.2 A4 printing

• A4 printing:

Barcode labels editor	1 Numbering:
Generic printing	
# A4 printing	Range from 1 to 50 or specific numbers: Clean (ac 5)7.9
A4 printing	or generate random numbers: Cenerate Clean
Direct EPL printing	
<b>C</b>	(◎) LabCollector series in module Reagents & Supplies 🛛 🗸 🖉 Skip deleted records
Dymo printing	or
	O From Memorized records
	or
	Generic series with optional PREFIX
	Copies of each label: 1
	Include copies sub-numbering (ax 1/5, 2/5, etc. This adds to comment)
	include copies sub-numbering (ar. (5, 2/5, acc. Insi adas to commant)
	2 Barcode Configuration:
	Include record name
	O No barcode
	O ID only (no barcode/no name)
	symbology: Barcode height: 25
	20 symbology:      normal size     reduced size
	3 nb coli: 4
	Format:   A4 Letter
	nb router 15
	AND top margin: 2 mm
	AND bottom margin: 2 mm
	AND left margin: 2 mm
	AND right margin: 2 mm
	4 AND right margin: 2 mm

- 1. Its the same as for generic printing. See  $\square$  section 10.2.1
- 2. You can configure to have no barcode or 1D, 2D barcode.
- 3. You can choose the organization of barcodes on an A4 size paper. Here you can define the number of rows and number of columns, which format you want (A4 and letter), and you can define the margin from 4 sides of paper.
- 4. Once you are done you can directly print or preview the barcodes. If you preview, you will see the barcodes like below. (\*Below is just an example, your barcodes may vary according to the setting in above image).

1. LabCollector



### Note

LabCollector now offers you the ability to insert images within labels. This feature allows for more visually appealing and informative labels. Here's how you can insert images into labels and configure various parameters:

- Select Image: Users can select the option to insert an image into their label. This option is located in the 'ADD IMAGE' section (as shown in the screenshot below).
- Choose Image: Upon selecting the "add image" option, users can browse their system to choose the
  desired image they want to insert into the label.
- Set Margin Left and Top: Users can configure the margin of the inserted image from the left and top edges of the label. This adjustment allows for precise placement of the image within the label area.
- Define Width and Height: Users can set up the width and height of the inserted image to ensure it fits
  appropriately within the label and aligns with the overall design.
- Preview and Test: Before finalizing the label design, users should preview and test the label with
  inserted images to ensure that they appear as intended and meet the desired specifications.



### 10.2.3 Direct EPL printing

• Direct EPL printing:

Choose your numbering option (continued or discontinued list or generic labeling).

Barcode labels editor	
Generic printing	1 Numbering:
 A4 printing	Range from: to or specific numbers: Clean (ex 5x734) or generate random numbers: 0 Clean @
Dymo printing	LabCollector series in module Select Module
	Add Name to labels: (does not apply on generic)         Add extra text:
	BBP1     ✓       O No barcodo      ID       Image: Choose Printer:     BBP1       O No barcodo      ID
	O labels with copies each     For direct Zobra EPL printing t Validate options

- 1. Its the same as for generic printing. See  $\square$  section 10.2.1
- 2. Here you can choose the label options.
- 3. You can select the label type and printer to print barcode (1D or 2D).
- 4. See our KB: how to add label types.
- 5. Once you are done you can click on validate options. Roll types need to be defined before through *Admin* → *Setup* → *Network Printers.*

## A Note

Barcode symbol is fixed by the printer preferences in Admin  $\rightarrow$  Setup  $\rightarrow$  Network Printers.

## 10.2.4 Dymo printing

• Dymo printing:

The Dymo LabelWriter 450 Turbo (US model) is a plug and play printer. Dymo is a local printer, so the printing should be ordered from the local computer connected with the Dymo.

## A Note

LabCollector only supports this model at the time of writing this manual.

1.	Lab	Col	lec	tor
	Lab	001	100	cO1

Barcode labels editor	
Generic printing	1 Numbering:
A4 printing	Range from: to or specific numbers: Clean (ar: 5,7,34 or generate random numbers: 10 Generate Clean 👁
Direct EPL printing	
	LabCollector series in module Select Module
	or O Generic series with optional PREFIX
	2 Label Options:
	Add Name to labols: (does not apply on generic)
	Add extra text
	Copies of each labet 1 Include copies sub-numbering: (ex.1/5,2/5, etc. This adds to comment)
	3 Label Format: AgileBioToch  Choose Printer:
	Print series

More information on Dymo printing is available in our **KB**: <u>how to use the Dymo</u> and <u>customize Dymo</u> <u>label template tags</u>.

## **10.3 Purchase Order Management**

For detailed information see  $\blacksquare$  section 9.

## **10.4 Batch Generator (Rack Scanner)**

On the home page you have access to a special Add-on tool to generate a rack/tray to be loaded into LabCollector. This accelerates sample registration with direct storage definition.

This tool has three usage modes:

- 1. Direct
- 2. Manual import
- 3. Generic map generation



# From Batch Generator (Rack Scanner) Tool, use the direct command to scan your racks and import them into LabCollector.

## 10.4.1 Direct Scanner Trigger

This tool allows direct imports of scanned well rack/trays from several manufacturers. Trays/racks have Datamatrix (2D barcodes) pre-labeled unique tubes or RFID tagged tubes. The scanner generates a rack/tray map file that is loaded into LabCollector.

This accelerates sample registration with direct storage definition. LabCollector recognizes scanner file

formats automatically. You can connect it to Scan server which is a server listener from AgileBio, that helps connect Rack Scanners with Scan servers.

Please read out **EKB**: how to configure Scan server with LabCollector.

#### Note

This tool is compatible with many suppliers of precoded tubes and scanners including Micronic, BioMicroLab, FluidX, Thermo, Ziath, Biotillion Please see our KB: how to connect to FluidX, Ziath and Micronic Traxer rack scanners.

- 1. Tool  $\rightarrow$  Batch generator (Rack Scanner)
- 2. Choose your scanner in the "1.Direct Scanner Trigger Input" section.
- 3. You can generate a new tray entry or existing tray/rack update (check option part).
- 4. Click on "Scan!". The rack/box map preview appears.
- 5. Click on "*Process*" to complete the import.

When using direct trigger you will view the scanner output directly.

	Choose one of 3 modes below: direct scanner input, file import or generic generator	
1: Direct Scanner Trigger Input		
Choose Scanner Ziath_FR 🗸 S	can 1 2 3 4 5 6 7 8 9	
ACK:PR0000000001 -	A 80005305 b0005205 b0005219 b0005205 b00050000000000	
02.b000530437 03.b000520570 04.b000520550		
05,5000520552 05,5000530297	B 0000507 0000507 0000508 0000508 00005057 0000507 0005057 0005057 000557 0000557 00000557 0000557 0000557 0000557 0000557 00000	
07.b000529916 08.b000530280	C b0005302 b0005304 b0005304 b0005303 b0005303 b0005304 b0005297 b0005305 b0005297	
09,5000521962 01,5000530217	CO1 19 CO2 20 CO3 21 CO4 22 CO5 23 CO6 24 CO7 25 CO8 26 CO9 27	
02.b000530400 03.b000530439 04.b000530447	D 0005197 b0005020 b0005219 b0005205 b0005219 b0005304 b0005302 b0005302 b0005297 74 68 28 65 41 18 51 22 86 01 91 001 291 001 291 003 30 004 31 005 321 006 33 007 93 10	
05,b000530444 06,b000529798	E 0005219 0005205 0005205 0005304 0005205 0005219 0005230 0005298 0005500 001	
07;5000530410 08;5000529820	E01 37 E02 38 E03 39 E04 40 E05 41 E06 42 E07 43 E08 44 E09 45	
09,b000530183 01,b000530213 02,b000530433	F R 0005302 b0005303 b0005303 b0005303 b0005302 b0005000 b0005000 b000000000000000000	
03,b000530446 04,b000530363	60005205 60005219 60005219 60005202 60005205 60005205 60005205 60005219	
05,5000530361 05,5000530413	001 53 002 56 003 57 004 56 005 39 006 60 007 61 008 62 008 63	
07,b000529781 08,b000520581	H 100 5206 b0005206 b0005302 b0005304 b0005304 b0005303 b0005300 b0005300 b0005300 b0005300 b0005300 b0005300 b0005300 b0005300 b0005300 b00005300 b0005300 b000050000000000	
09,6000529784 01,6000529774		

#### 10.4.2 File Import

It is also possible to import rack/box maps from files (scanner output, CSV or Excel).

- 1. Go to the "1.Direct Scanner Trigger Input" section.
- 2. Choose the file to upload (TXT or CSV). Check the Field Separator option in "Processing Options" part.
- 3. Choose your file format.
- 4. Click on "Process" to complete the import.

All the steps are explained in our **KB**: <u>section</u>: <u>Scanning the rack</u>.

#### 1. LabCollector

2. Scanner Output or File Import      3. Generic      70000000      3. Generic      700000000      70000000      700000000	Batch Generator (Rack S Tools/Batch Generator (Rack Scanner) [Samples Module]	Add New Single sample R
Choose Scanner Select Choose Select Choose Select Selec	Choose one of 3 modes below: direct scanner i	nput, file import or generic generator
2. Scanner Output or File Import      3. Generic      70000000      3. Generic      700000000      70000000      700000000	1: Direct Scanner Trigger Input	
3: Generic      3: Generic      3: Generic      4      5      5      7      6      7	Choose Scanner Select	
3: Generic      3: Generic      3: Generic      4      5      5      7      6      7		
Tracessing Options:            Force sating position by row (ALAZA3, etc).             Force sating position by row (ALAZA3, etc).             Force sating position by column (ALB(CL etc).             Labels on line (first line will be skipped)             Field Separator:             Cav Moder()             Cav (a)             Cav Moder()             Cav Meader ()	2: Scanner Output or File Import	
Force sering position by row (AL2A3, sec). Force sering position by column (AL8LCL etc). Lobels on line I (first line will be skipped) Field Separator:	<ul> <li>3: Generic</li> </ul>	
Force sering position by column (ALBICL etc). Lobels on line I (first line will be skipped) Field Separator: <ul> <li>Custom separator(must be unique)</li> <li>Kternal Data Source:</li> <li>you want to add &amp; marge more data together with sconned vials, select the optional data source below.</li> <li>CEV ( CSV ( CSV ( tab) for SAMPLE NAME and COMMENTS (match by line order)</li> <li>CEV header () CSV header () CSV header (tab) for fields matched by header name (match by 2D code on first colum)</li> <li>TOR (Abbott Sample Extraction) TRETURUS (Orifols immunoassay System)</li> <li>Click Upload 1 C choose File Browse</li> </ul> To R Abbott Sample Extraction) TRETURUS (Orifols immunoassay System) Click Upload 1 C choose tomplate to apply Neme os T. NAME ReachT. NAME ReachT. NAME ReachT. NAME - Tuber New tube rack (rack name / manual code read). tack of/gin A tomplate: Select master tube rack/(rack name / manual code read). tack (rack name / manual code read). tack by borock. (will be secondary storage from an custifing rack. (will be secondary storage of esisting samples. Tube positions must perfectly match) Derive to new record from an exisiting rack. Colect the orack/bace Select tractorin () Derive to new record from an exisiting rack. Select Storage Location Output to no ky record from an exisiting rack. Select Storage Location Output to no ky record from an exisiting rack. Select Storage Location Output to no ky record from an exisiting rack. Select Storage Location Output to no ky record from an exisiting rack. Select Storage Location Output to no ky record from an exisiting rack. Select Storage Location Output to no ky record from an exisiting rack. Select Storage Location Output to no ky record from an exisiting rack. Select Storage Location Output to no ky record from an exisiting	Processing Options:	
Lobels on line   (first line will be skipped) Field Separator: (*) Comme () semicolon () IAB	Force sorting position by row (A1,A2,A3, etc).	
Field Separator: (*) Comma () semicolon (?) TAB       Custom separator(must be unique)         xtarnal Data Source:       (*) Cost A marge more data together with scannad viols, select the optional data source below.         > Cost (*) Cost (*) Cost (*) Cost Admits HAME and COMMENTS (match by line order)       (*) Cost (*) Cost (*) Cost (*) Cost Admits HAME and COMMENTS (match by line order)         > Cost Neader ()       CSV Neader (*) Cost Neader (tab) for fields matched by header name (match by 2D code on first colum)         > ToR (Abbott Sample Extraction)       THTURUS (Cirlfols Immunoassey System)         Click Upload To Choose File       Browse         back origin & tamplata:       Based on tamplato [Choose tamplato to apply v] Name as (*) T.NAME (*) Rock-T.NAME (*) Rock-T.NAME-Tube         Now tube rack / Existing with direct barcode read       Existing tube rack (reak name / manual code read).         back ID/barcoda:       Select master tube rack/bacc         will be saved as secondary storage form an asisting rack.       Select master tube rack/bacc         Derive to new record from an axisiting rack.       Select Storage Location	Force sorting position by column (A1,B1,C1, etc).	
Atternal Data Source:         you want to add & marge more data toggether with sconned viait, select the optional data source below.         CEV ()       CSV (a)         CSV header ()       CSV header ()         CSV header ()       CSV header (a)         CSV header (a)       CSV header (a)         CSV header (b)       CSV header (a)         CSV header (b)       CSV header (b)         Based on template       Browse         Based on template (Choose tomplate to apply v)       Nome os ()         Now tube rack (rack name / manual code road)       Existing tube rack (rack name / manual code road)         Existing rack.       (will be rackd rase name / manual code road)         Select master tube rack/base       Select master tube rack/base         Select master tube rack/base	Labels on line I (first line will be skipped)	
you want to add & merge more data together with scanned viait, select the optional data source below.          OSV       OSV (ab) for SAMPLE NAME and COMMENTS (match by line order)         OSV header ()       OSV header ()       OSV header (ab) for fields matched by header name (match by 2D code on first colum)         TOR (Abbott Sample Extraction)       TRTURUS (Orifols Immunoassos System)         Click Upload To Choose File       Browse         Based on template       Choose tomplate to apply V       Nome os        T.NAME ()       Rock-T.NAME - Tube         Now tube rock / faisting with direct barcodo road       Existing tube rock (rack name / manual code read).       Existing tube rock (rack name / manual code read).         Now tube road (rack origin from an oxisiting rack.       Solect master tube rack/boxc       Solect master tube rack/boxc         Solect traster tube rack/boxc       Solect Storage Location       Solect Storage Location	Field Separator:   Comma (.)	semicolon (;) 🔵 TAB Custom separator(must be unique)
CeV 0 CeV 0 CeV (tab) for SAMPLE NAME and COMMENTS (match by line order)     CeV header () CeV header () CeV header (cb) for fields matched by header name (match by 20 code on first colum)     ToR (Abbott Sample Extraction) THETURUS (Crifols immunoassay System)     Click Upload To Choose File     Browse      Based on template Choose template to apply      Nome as T NAME      Reach T. NAME REACH T. NAME REACH T. NAME REACH T. NAME REACH T. NAME REACH T. NAME REACH T. NAME REACH T. NAME REACH T. NAME REACH T. NA	External Data Source:	
TOR (Abbott Sample Extraction) TRITURUS (Grifols Immunoassoy System)  Click Upload Ic Choose File Browse Based on tamplate Choose tamplate to apply Neme as T.NAME Real-T.NAME Real-T.NAME Need-T.NAME Tube New tube rack / Existing with direct barcodo read Existing tube rack (rack name / manual code read). tack ID/barcoda: Replicato as secondary storage from an axisiting rack. (will be saved as secondary storage of existing samples. Tube positions must perfectly match) Derive to new record from an axisiting rack.		
Click Uplaced To Choose File Browse  Click Uplaced To Choose File Browse  Click Uplaced To Choose File Browse  Based on template Choose template to apply  Nome as  I.NAME  Read-T.NAME RE	○ CSV header () ○ CSV header () ○ CSV header	r (tab) for fields matched by header name (match by 2D code on first column
	O TOR (Abbott Sample Extraction) O TRITURUS (Orif	ols Immunoassay System)
Based on template Choose template to apply Name os 1.NAME Rock-1.NAME Rock-1.NAME Rock-1.NAME-Tube     Now tube rock / Existing with direct barcodo read     Existing tube rock (rack name / manual code read).     Itack ID/barcode:         Replicate as secondary storage from an         cuisiting rack.     (will be such as secondary storage of existing         samples.     Tube patiens must perfectly match)     Derive to new record from an exisiting     rack.	Click Upload To Choose File	Browse
Based on template Choose template to apply Name os 1.NAME Rock-1.NAME Rock-1.NAME Rock-1.NAME-Tube     Now tube rock / Existing with direct barcodo read     Existing tube rock (rack name / manual code read).     Itack ID/barcode:         Replicate as secondary storage from an         cuisiting rack.     (will be such as secondary storage of existing         samples.     Tube patiens must perfectly match)     Derive to new record from an exisiting     rack.	Rack origin & template:	
Existing tube rack (rack name / manual code read).     Iack ID/barcoda:     Replicate as secondary storage from an     avisiting rack.     (will be saved as secondary storage of existing     samples.     Tube positions must perfectly match)     Derive to new record from an exisiting     rack.	Based on template     Choose template to ap	oply 🗸 Name as 🔿 T. NAME 🛞 Rack-T. NAME 🔿 Rack-T. NAME-Tube ID
ack ID/barcoda:	New tube rack / Existing with direct barcod	e read
Replicato as secondary storage from an exisiting rack.     (will be saved as secondary storage of existing samples.       Select master tube rack/bax     Select master tube rack/bax       Tube positions must perfectly match)     Select Storage Location       Derive to now record from an exisiting rack.     Select Storage Location	O Existing tube rack (rack name / manual code re	aad).
cxisiting rack.     (will be saved as secondary storage of existing samples.       samples.     Select master tube rack/bac       Tube positions must perfectly match)     Select Storage Location       Derive to new record from an exisiting rack.     Select Storage Location	Rack ID/barcode:	
samples.         Solect master tube rack/box           Tube positions must perfectly match)         Solect Storage Location           Derive to new record from an exisiting rack.         Solect Storage Location	*	
Derive to new record from an exisiting rack.		Select master tube rack/box:
rack.	Tube positions must perfectly match)	Select Storage Location
	· ·	
	rack. (will be saved as new storage with new samples	
(will be saved as new storage with new samples linked to parent/ existing samples.		
Tube positions must perfectly match		-

## A Note

This tool is compatible with many suppliers of precoded tubes and scanners including Micronic, BioMicroLab, FluidX, Thermo, Ziath, Biotillion Please see our KB: how to connect to FluidX, Ziath and Micronic Traxer rack scanners.

## 10.4.3 Generic rack/Box import

This section allows you to define different sizes of boxes/plates filled with samples in an easy single form.

Generic rack/box grid with no codes and no	scanning with 8	rows x 12	columns (96	wells)
As storage box As microplate (not editate Automatic naming of records:     Assign automatic names to records     Add prefic     Add suffix with TUBE POS (ALA2) TUBE COS				
Processing Options:				
Force sorting position by row (ALA2A3, etc).				
Force sorting position by column (A1BLC1 etc).				
Labels on line I (first line will be skipped)				
Field Separator:    Comma () (	) semicolon (;) () 1/	BCusto	m separator(must be	unique)
External Data Source:				
CSV ()         CSV (2)         CSV (tab) for SAMPLE NAME a           CSV header ()         CSV header ()         CSV header ()           TOR (Abbott Sample Extraction)         TRTURUS (Orifol	(tab) for fieds matched	by header name	(match by 2D code of	n first column)
Click Upload To Choose File	Brows	D		
Rack origin & template:				
O Based on template Choose template to app	Name as ()	I. NAME 🔘 Rock	T. NAME O Rock-T. N	IAME-Tube ID
Now tube rack / Existing with direct barcode	read			
Existing tube rack (rack name / manual code rea	d).			
Rack ID/barcode:				
Replicate as secondary storage from an				
and the second				
exisiting rack.				
(will be saved as secondary storage of existing	Select master tul	c rack/box:		
(will be saved as secondary storage of existing samples.	Select master tul Select Storage L			
(will be saved as secondary storage of existing samples. Tube positions must perfectly match)				
(will be saved as secondary storage of existing samples.				
(will be saved as secondary storage of existing samples. Tube positions must perfectly match) O Dorive to new record from an exisiting rack.				

- 1. Go to the "3.Generic" section.
- 2. Indicate the rack/plate size (rows x columns).
- 3. Choose to import as a storage box or microplate.
- 4. Automatic naming of records can be chosen in this section.
- 5. You can specify other choices in the "Processing Options" section.
- 6. Click on "Process".

## 10.4.4 Process rack import

		nerator (Rack Scanne herator (Rack Scanner) [Samples Module						
			<b>Warning:</b> The rack/bo	x was not found in database. C	Check ID and start again OR crea	ite a new rack/box	storage below. (PR000000000)	
		Tube rack name/barcode: *	PR0000000001	(Box name. You can read the rack	/box barcodo into this field diractly)			
		Storage Location: • Storage Drawer: •	Select Storage Location		~			
(a	nly available dra	wors and drawors with ompty places are active.)	Position in drawer:	)			Volume m	ovement for all: +/- vol mL Apply
		Tube rack's general description:						Cap color for the set: No Color 👻
		Owner: *	Wanda Wong		Common Box			Sample type for all: Select the type
Position	Tube ID	Sample name		Vol.	Project (autocomplete)	Sample desc	ription and more (apply Line 1 fields to all )	Sample type*
Al	b000520584	or ropt	ica from 🕎	mL +/- vol			Œ	Select the type
A2	b000530437	or 🔲 repl	ica from 🏠	mL +/- vol			$\oplus$	Select the type 🗸
A3	b000520570	or 🗖 repi	ico from 🏠	mL +/- vol			Ð	Select the type 🖌
A4	b000520550	or 🗋 repl	ico from 🏠	mL +/- vol			•	Select the type 🖌
A5	b000520552	or repl	ico from 🏠	mL +/- vol			Ð	Select the type 🗸

- \* Red asterisks represent fields that must be filled.
- 1. Give a rack name / box name / plate name or ID.
- 2. Choose a storage location for the rack / tray /plate.
- 3. Identify the drawer where the rack is stored.
- 4. Define box owner. Check "Common box" if you want to share your data.
- 5. A cap insert color could be chosen.

Fill in sample name, sample type, sample volume and project name/number (can be selected individually or can be chosen for all). Mouse drag can be used to multiple checks.

A sample description can be added, click on green icon to display more fields.

Position	Tube ID	Sample name		Vol.	Project (autocomplete)	Sample descr	iption and more ( apply Line 1 fields to all )	Sample type*
Al	b000520584	or 🔲 rep	lica from 🕎	mL +/- vol			•	Select the type 🗸
								×C
		Origin						
		Organism				• ⑦		
		sampling_date		Te Now				
		soloctod				¥	(Add/Edit Values)	

1. Go to the bottom of the page to validate the data import.

All done?  No O Yes (select yes ONLY who	en all information have been entered and any barcode	scanned to avoid unwanted automatic subm	nission. This will activate the submit button)
	Force update 'update_date' field for all	:  No O Yes	
			_
Existing at same grid position	Existing but at different grid position	Existing in different rack/box	Existing in DB, no storage
Note: Please make sure you ha	ave selected the corresponding sample type fo	or all lines or that you have checked "Ap	ply to all lines" option.

- 2. "Click to submit form" to finish.
- 3. The rack/box layout is displayed.

	1	- 2.1	3			8	. ?			10	-11	3.7
-	0	14	10	#	- 19	10 10 10 4	· 15	1.16	3.8	1.10	13	100
,	0	10	- 64	- 18	. 87	00100230	- 29	- 04	-10	- 84	-81	1.9
	<u>s</u> 0	82 28	11 _ 11	Harris	M	Marial	F	H. H.	M	R1 11	811 13	ari le
c	201228237 88	0000813** 96	40108137 87	0010811** 98	00108117* 66	20128117 60	8810812* 88	30008117 80	0110817* 84	0000017 <sup>+</sup>	01128227 88	80108217
	63 JH	CI 38	CI 17	£8 38	LI 32	C8 32	CT 34	D8 10	28 35	C10 34	E11 33	614 18
0	30138237 87	HILLSON AND IN COLUMN	4111111111 41	00108237 84	80108337 82	ancentre Ac	80108427 <sup>4</sup> 85	90108137 80	01108237 76	10008137 78	00100227 22	micell*
	25. 27	22 38	22 28	DH 40	28 11	58 42	27 42	28	20 43	212.48	211 4*	112 4
	1010827*	00008137 74	0011813** 75	00008237 78	20128127 75	00-108117 75	800.0007 40	80.008217 40	81108137 47	80.188237 #8	401.142.27 46	0010823* 84
	R. 48	42 N	RT 31	84 85	81 85	88 34	87 88	88 38	88 27	812 28	811 88	812 40
÷	51108137 83	0112811* 62	001181371 61	0000811** 40	1022082.0* 88		00108107 87	shinkin" Ni	811.08207 88	00108217 N	81106227	1000017 52
	P2 41	12 42	17 83	P6 84	12 62	78	PT 87	78	79 88	P12 75	741	P12 13
Ģ	- 64	. 59	1.44	- 48	- 47	30138137 48	- 6	- 44	- 41	- 44	- 41	40116425* 40
	Gi 71	10 N	8 75	Ga	48 . 77	G8 78	E7 79	10 AL	a 8	01.81	615 (8)	212 84
-	10110421TT 200	01108137 18	001181377 377	01.08117 38	10110427* 30	34	223 223	2010/00/17 20	0011A17*	SULARIT SS	011.144.2.01 200	1010000
	46 . 85	10 86	40 87	14 . 88	42. 88	48. 85	47 91	48. 92	+0 52	142 84	415 85	14.2 . 98

4. Click on the name of a sample to display details.

## Note

Check the color code on the rows. Unique 2D codes are checked and therefore should not be replicated. If existing codes are found the row color will be RED, ORANGE, GREEN or BLUE as described. Overlapping tubes on taken positions will be indicated by a blinking attention mark.

#### 10.4.5 Volume deduction

You can use the Sample Batch tool for automatic volume deduction. You just have to scan a rack with existing tubes and complete the "Volume taken to all" section before submission.

√ Volume movement for all: +/-	vol mL Apply
Cap color for th	e NEW set: No Color 🗸
Sample type for all NEW:	Select the type 🗸

#### **10.5 Manage memorized items**

In all modules, you have the possibility to memorize records to process them in batch.

- 1. Go to the module of your choice.
- 2. Memorize records one by one with the icon @ (in tabs on the right hand side) or do a search and memorize the result with the same icon on the top of the list.



3. Then, in *Tools* → *Manage memorized items*, you select all or a part of your memorized records (check box), you choose one action in the select list and click on **Do!**.



**A.** Multiple Update: with this option, you can mass update multiple memorized records at once. First, you will have to select them, then it'll ask you to choose the module to which they belong (in case multiple modules were detected), then you will have to choose the fields you want to update, and finally click on "next" to input your changes.

B. Record Sharing: you also have the option to share the memorized records with secondary owners or

even other groups.

## 1 Note

If records that belong to a module with disabled "secondary owners" were detected, they will be ignored, and therefore not shared.

- C. Worklist Main/aliquots
- D. Worklist w/sec storage

Records with secondary storage will each have a row in the following table. If secondary storage is not selected, only a single row will appear for the record, even if secondary storage is defined.

	t			@ Add		lume (양 Add Process) (음 R			all records	
ID	Title	Uses	Freezer	Rack/Canister	Position/Goble	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Positions in box	Vol.	from Module	
1	PI_SPS1_I1_DC1-DNA	0	-80°C 100-3			boite plasmides	B7,B8, 🎦	0.88 mL	Samples	0
2	R_S3_I3_Db1-DNA	0	Fridge 1	rack1		Box-01	аі, 🦻	4 mL	Samples	(
51	R_S1_I1_Db1-DNA-1	0	-80°C 100-3			rouen box			Samples	(
53	PI_SPS2_I1_Db1-DNA-1	0	Frigo F100-1	Tiroir-01	6	Tiroir-01.Boite F6	аі, 🦻		Samples	(
55	R_S2_I2_Db1-DNA-1	0	Freezer	Rack-01	4	Rack-01.Boite C4	A1, 🎦	1.5 mL	Samples	(
57	R_S1_I2_Dc1-DNA-1	0							Samples	1
59	R_S1_I2_Db1-DNA-1	0							Samples	
66	PI_SPS1_I1_DC1-DNA-2	0	-80°C 100-3	Samples		Sang patient	вз, 🎦		Samples	
72	SaoS-2-DNA-1	0							Samples	
orklis	st			@ Ad	d link 🖉 🖉 Take out Vo	lume [悠 Add Process] 🖴 Re	move all from storage	Archive al	L records B So	/e lis
orklis	st Title	Uses	Freezer	Rack/Canister	d link) 🖍 Take out Vo	ume) 🕸 Add Process) 😅 Re Box/Visotube	move all from storage	Archive al	from Module	ve lis
orklis		Uses 0	Freezer Fridge 1						(	ve lis
ID	Title			Rack/Canister		Box/Visotube	Positions in box	Vol.	from Module	
ID 2 51	Title R_S3_I3_Dbi-DNA	0	Fridge 1	Rack/Canister		Box/Visotube Box-01	Positions in box	Vol.	from Module Samples	6
ID 2 51 (51)	Title R_S3_13_Db1-DNA R_S1_11_Db1-DNA-1	0	Fridge 1 -80°C 100-3	Rack/Canister rack1		Box/Visotube Box-01 rouen box	Positions in box	Vol. 4 mL	from Module Samples Samples	0
ID 2 51 (51) (51)	Title           R_S3_I3_Dbi-DNA           R_S1_I1_Dbi-DNA-1           (R_S1_I1_Dbi-DNA-1)	0	Fridge 1 -80°C 100-3 Freezer	Rack/Canister rack1		Box/Visotube Box-01 rouen box Covid_19_project_2021_2	Positions in box AI, P BI, P B2, P	Vol. 4 mL 2 mL	from Module Samples Samples Samples	0
ID 2 51 (51) (51) (51)	Title           R_S3_i3_Dbi-DNA           R_S1_i1_Dbi-DNA-1           (R_S1_i1_Dbi-DNA-1)           (R_S1_i1_Dbi-DNA-1)	0 0 - -	Fridge 1 -80°C 100-3 Freezer Freezer	Rack/Canister rack1 rack1 rack1 rack1	Position/Goblet	Box/Visotube Box-01 rouen box Covid_19_project_2021_2 Covid_19_project_2021_2	Positions in box AL D BL D B2. D B4. D B5	Vol. 4 mL 2 mL 1.5 mL	from Module Samples Samples Samples Samples	6
ID 2 51 (51) (51) (51) (51)	Title           R_S3_I3_Dbi-DNA           R_SI_I1_Dbi-DNA-1           (R_S1_I1_Dbi-DNA-1)           (R_S1_I1_Dbi-DNA-1)           (R_S1_I1_Dbi-DNA-1)           (R_S1_I1_Dbi-DNA-1)	0 0 - - -	Fridge 1 -80°C 100-3 Freezer Freezer Freezer	Rack/Canister rack1 rack1 rack1 rack1		Box/Visotube Box-01 rouen box Covid_19_project_2021_2 Covid_19_project_2021_2 Covid_19_project_2021_2	Positions in box AL BL C BL	Vol. 4 mL 2 mL 1.5 mL 2 mL	from Module Samples Samples Samples Samples Samples	0
ID 2 51 (51) (51) (51) (51) (51)	Title           R_S3_I3_DbI-DNA           R_S1_I1_DbI-DNA-1           (R_S1_I1_DbI-DNA-1)           (R_S1_I1_DbI-DNA-1)           (R_S1_I1_DbI-DNA-1)           (R_S1_I1_DbI-DNA-1)	0 0 - - - -	Fridge 1 -80°C 100-3 Freezer Freezer Freezer Freezer	Rack/Canister rack1 rack1 rack1 rack1 rack1 Secon	Position/Goblet	Box/Visotube Box-01 rouen box Covid_19_project_2021_2 Covid_19_project_2021_2 Covid_19_project_2021_2 Covid_19_project_2021_2	Positions in box AL () BL () B2 () B4 () B2 () B4 () B E7 () B B E7 (B) (B) (B) (B) (B) (B) (B) (B) (B) (B)	Vol. 4 mL 2 mL 1.5 mL 2 mL 2 mL	from Module Samples Samples Samples Samples Samples Samples	6
ID 2 51 (51) (51) (51) (51) (51)	Title           R_S3_I3_DbI-DNA           R_S1_I1_DbI-DNA-1           (R_S1_I1_DbI-DNA-1)           (R_S1_I1_DbI-DNA-1)           (R_S1_I1_DbI-DNA-1)           (R_S1_I1_DbI-DNA-1)           (R_S1_I1_DbI-DNA-1)	0 0 - - - - - -	Fridge 1 -80°C 100-3 Freezer Freezer Freezer Freezer Freezer	Rack/Canister rack1 rack1 rack1 rack1 rack1 rack1 Secon	Position/Goblet	Box/Visotube Box-01 rouen box Covid_19_project_2021_2 Covid_19_project_2021_2 Covid_19_project_2021_2 Covid_19_project_2021_2 Covid_19_project_2021_2	Positions in box AL [7] BL [7] BL [7] BL [7] BL [7] F2 [7] F5 [7]	Vol. 4 mL 2 mL 1.5 mL 2 mL 2 mL 2 mL	from Module Samples Samples Samples Samples Samples Samples Samples	6
ID 2 51 (51) (51) (51) (51) (51)	Title           R_S3_I3_DbI-DNA           R_S1_I1_DbI-DNA-1           (R_S1_I1_DbI-DNA-1)           (R_S1_I1_DbI-DNA-1)           (R_S1_I1_DbI-DNA-1)           (R_S1_I1_DbI-DNA-1)           (R_S1_I1_DbI-DNA-1)           (R_S1_I1_DbI-DNA-1)	0 0 - - - - - - - - - -	Fridge 1 -80°C 100-3 Freezer Freezer Freezer Freezer Freezer	Rack/Canister rack1 rack1 rack1 rack1 rack1 rack1 Secon rack1	Position/Goblet	Box/Visotube           Box-OI           rouen box           Covid_19_project_2021_2           Covid_19_project_2021_2           Covid_19_project_2021_2           Covid_19_project_2021_2           Covid_19_project_2021_2           Covid_19_project_2021_2           Covid_19_project_2021_2	Positions in box AL [P 82, [P 84, [P 84, [P 75, [P 75, [P 75, [P 143, [P 143, [P 143, [P 143, [P	Vol. 4 mL 2 mL 1.5 mL 2 mL 2 mL 2 mL 2 mL	from Module Samples Samples Samples Samples Samples Samples Samples Samples	
ID 2 51 (51) (51) (51) (51) (51) (51)	Title           R_S3_I3_DbI-DNA           R_SI_I1_DbI-DNA-1           (R_S1_I1_DbI-DNA-1)           (R_S1_I1_DbI-DNA-1)           (R_S1_I1_DbI-DNA-1)           (R_S1_I1_DbI-DNA-1)           (R_S1_I1_DbI-DNA-1)           (R_S1_I1_DbI-DNA-1)           (R_S1_I1_DbI-DNA-1)           (R_S1_I1_DbI-DNA-1)           (R_S1_I1_DbI-DNA-1)	0 0 - - - - - - - - - -	Fridge 1 -80°C 100-3 Freezer Freezer Freezer Freezer Freezer Freezer Freezer	Rack/Canister rack1 rack1 rack1 rack1 rack1 rack1 rack1 rack1	Position/Goblet	Box/Visotube           Box-OI           rouen box           Covid_19_project_2021_2           Covid_19_project_2021_2           Covid_19_project_2021_2           Covid_19_project_2021_2           Covid_19_project_2021_2           Covid_19_project_2021_2           Covid_19_project_2021_2           Covid_19_project_2021_2           Covid_19_project_2021_2	Positions in box At 5° BL 5° B2 5° B4 5° F7 5° F5 5° H8 5° H8 5° At 5°	Vol. 4 mL 1.5 mL 2 mL 2 mL 2 mL 2 mL 2 mL	from Module Samples Samples Samples Samples Samples Samples Samples Samples Samples	
ID 2 51 (51) (51) (51) (51) (51) (51) (51) (51)	Title           R_S3_I3_DbI-DNA           R_SI_I1_DbI-DNA-1           (R_SI_I1_DbI-DNA-1)	0 0 - - - - - - - - - - - - - -	Fridge 1 -80°C 100-3 Freezer Freezer Freezer Freezer Freezer Freezer Freezer Freezer	Rack/Canister rack1 rack1 rack1 rack1 rack1 rack1 rack1 rack1 rack1 rack1	Position/Goblet	Box/Visotube           Box-OI           rouen box           Covid_19_project_2021_2           Covid_19_project_2021_2           Covid_19_project_2021_2           Covid_19_project_2021_2           Covid_19_project_2021_2           Covid_19_project_2021_2           Covid_19_project_2021_2           Covid_19_project_2021_2           Covid_19_project_2021_2	Positions in box AL [P 82, [P 84, [P 84, [P 75, [P 75, [P 75, [P 143, [P 143, [P 143, [P 143, [P	Vol. 4 mL 1.5 mL 2 mL 2 mL 2 mL 2 mL 2 mL	from Module Samples Samples Samples Samples Samples Samples Samples Samples Samples Samples	
ID 2 51 (51) (51) (51) (51) (51) (51) (51) (51) (51) (51)	Title           R_S3_I3_DbI-DNA           R_SI_I1_DbI-DNA-1           (R_SI_II_DbI-DNA-1)           (R_SI_II_DDI-DNA-1)           (R_SI_II_DDI-DNA-1)	0 0 - - - - - - - - - - - - - - - -	Fridge 1 -80°C 100-3 Freezer Freezer Freezer Freezer Freezer Freezer Freezer Frigo F100-1	Rack/Canister rack1 rack1 rack1 rack1 rack1 rack1 rack1 rack1 rack1 rack1 rack1 rack1 rack1	Position/Goblet dary storage	Box/Visotube           Box-01           rouen box           Covid_19_project_2021_2           Tiroir-01Boite F6	Positions in box At 5° BL 5° B2 5° B4 5° F7 5° F5 5° H8 5° H8 5° At 5°	Vol. 4 mL 2 mL 1.5 mL 2 mL 2 mL 2 mL 2 mL 2 mL	from Module Samples Samples Samples Samples Samples Samples Samples Samples Samples Samples Samples	
ID 2 51 (51) (51) (51) (51) (51) (51) (51) (53) 53 55	Title           R_S3_I3_DbI-DNA           R_S1_I1_DbI-DNA-1           (R_S1_I1_DbI-DNA-1)	0 0 - - - - - - - - - - - - - - 0 0	Fridge 1 -80°C 100-3 Freezer Freezer Freezer Freezer Freezer Freezer Freezer Frigo F100-1	Rack/Canister rack1 rack1 rack1 rack1 rack1 rack1 rack1 rack1 rack1 rack1 rack1 rack1 rack1	Position/Goblet dary storage	Box/Visotube           Box-01           rouen box           Covid_19_project_2021_2           Tiroir-01Boite F6	Positions in box At [P] Bt [P] Bt [P] Bt [P] Bt [P] Ft [P] Ft [P] At [P] At [P]	Vol. 4 mL 2 mL 1.5 mL 2 mL 2 mL 2 mL 2 mL 2 mL	from Module Samples Samples Samples Samples Samples Samples Samples Samples Samples Samples Samples	
ID 2 51 (51) (51) (51) (51) (51) (51) (51) (51) 553 555 57	Title           R_S3_I3_DbI-DNA           R_SI_II_DbI-DNA-1           (R_SI_II_DbI-DNA-1)           (R_SI_II_DBI-DNA-1)	0 0 - - - - - - - - - - 0 0 0	Fridge 1 -80°C 100-3 Freezer Freezer Freezer Freezer Freezer Freezer Freezer Frigo F100-1	Rack/Canister rack1 rack1 rack1 rack1 rack1 rack1 rack1 rack1 rack1 rack1 rack1 rack1 rack1	Position/Goblet dary storage	Box/Visotube           Box-01           rouen box           Covid_19_project_2021_2           Tiroir-01Boite F6	Positions in box AL P BL P BL P BL P BL P FL P FL P FL P FL P AL P AL P BL P	Vol. 4 mL 2 mL 1.5 mL 2 mL 2 mL 2 mL 2 mL 2 mL	from Module Samples Samples Samples Samples Samples Samples Samples Samples Samples Samples Samples	
ID 2 51 (51) (51) (51) (51) (51) (51) (51) (53) 55 57 59	Title           R_S3_J3_DbI-DNA           R_S1_J1_DbI-DNA-1           (R_S1_J1_DbI-DNA-1)           (R_S1_J2_DbI-DNA-1)           R_S2_J2_DDI-DNA-1           R_S2_J2_DDI-DNA-1           R_S1_J2_DCI-DNA-1	0 0 - - - - - - - - - - - - -	Fridge 1 -80°C 100-3 Freezer Freezer Freezer Freezer Freezer Freezer Frigo F100-1 Freezer	Rack/Canister rack1 rack1 rack1 rack1 rack1 rack1 rack1 rack1 rack1 rack1 rack1 rack1 rack1 rack1	Position/Goblet dary storage	Box/Visotube           Box-01           rouen box           Covid_19_project_2021_2           Tiroir-018bite F6           Rack-01Boite C4	Positions in box At [P] Bt [P] Bt [P] Bt [P] Bt [P] Ft [P] Ft [P] At [P] At [P]	Vol. 4 mL 2 mL 1.5 mL 2 mL 2 mL 2 mL 2 mL 2 mL	from Module Samples Samples Samples Samples Samples Samples Samples Samples Samples Samples Samples Samples	

With this worklist, you can:

- Add a link (normal link on the bottom of each record) in batch. For example, link a set of primers to a
  DNA sample. Please refer to Section 7.5.1
- Take out volume by clicking on the corresponding button (for more information, please refer to section 7.4.3). When you use this function in batch, you can access to a summary table that you can print or easily copy to use in our ELN for example.

Sample	Purpose	Date / Time	Volume
PI_SPS1_I1_DC1-DNA		2022-12-14 / 11.33	10 mL
R_S3_I3_Db1-DNA		2022-12-14 / 11.33	10 mL
R_S1_I1_Db1-DNA-1		2022-12-14 / 11.33	10 mL
PI_SPS2_II_Db1-DNA-1		2022-12-14 / 11.33	10 mL
R_S2_I2_Db1-DNA-1		2022-12-14 / 11.33	10 mL
R_S1_I2_Dc1-DNA-1		2022-12-14 / 11.33	10 mL
R_S1_I2_Db1-DNA-1		2022-12-14 / 11.33	10 mL
PI_SPS1_I1_DC1-DNA-2		2022-12-14 / 11.33	10 mL
SaoS-2-DNA-1		2022-12-14 / 11.33	10 mL

Content:			🗎 Save 🛛 🛠 Can
		88  永国 ④ ×哈面面面 ★ → BIU ∞ 및 ■ 面 量 Ω /==[Q /==]♥- Styles -	
<u>A</u> · [2]· [2] [0]			
Sample	Purpose	Date / Time	Volume
Sample BS25	Purpose	Date / Time 2019-04-02 / 13.44	Volume 0.5 mL
	Purpose		

- For samples worklist, add a process to all data by clicking on the corresponding button (for more information, please refer to section 4.11.1).
- Remove storage by clicking on the corresponding button. A popup will ask you for main, secondary or both types of storage.
- Archive records by clicking on the corresponding button (for more information, please refer to section 7.5.1).

Your list can be printed and/or saved by clicking on the dedicated icon. When you save a pop-up will open and you can name your worklist, add a description and define restricted access.

🗟 Save This Worklis	st	
Worklist name:		
Worklist description:		1.
Share with:	All contacts Angelika Angelique Chaine Benson	- -
	Notify users by email (except all)	

Saved lists are available through *Tools*  $\rightarrow$  *Lists and series.* See  $\square$  section 10.8.

E. Replicate record

F. Derive record to. Select, in the section below the list of memorized records, the module where you want to create the derive records and an optional name suffix.

NEW!: You now have the possibility to include all compatible fields when deriving a record into another

#### module.

Derivation options	
Optional name suffix:	
Module to:	Samples 🗸
Include All Compatible Field	ls
	ne same field name and the same field type all fields with value are included
Sample Type:	Select Type

#### Note

If you derive in Samples module, you also have to select the sample type.

- G. Archive record directly (Careful, there is no step of validation).
- H. Unarchive record
- I. Lock record. Terminate record Edition
- J. Restore record
- K. Sign record

#### 🔭 Tips / Hints

It is possible to perform all these actions in batch in any module.

- L. Clean from memory
- M. Clean ALL from memory

## 🔭 Tips / Hints

If you need to work with a different list, clean the records (check the correct box(es)) or all records from the memory.

#### N. Delete from database

As for the other delete action, if a record has a link or storage, it can't be deleted.

For more information, see our **KB**: delete data.

An edit icon appears on worklists and in Manage memorized items page allowing the modification of records one by one.

## A Note

Non-admin users cannot delete, archive or lock records through **Tools → Manage memorized items.** 

## **10.6 Manage project code**

The Manage Project Codes page tool allows you to search records by project code, create codes and merge projects. The tool also works with memorized records.

You can also create projects and associate them to groups (group rules are applied).

From Project list From Memorized Records	
Keyword search	
Create Herge Archive	
<b>tzeees</b> (ID: 141)	C Edit View record list >
Total records: 1	
Created by Wanda Wong on 06-Nov-2020	
No description (double click to add a description)	
Available for groups:	
All groups 🝷	
COVID19 (ID: 140)	
Total records: 6	
Created by Wanda Wong on 10-Sep-2020	
No description (double click to add a description)	

## **10.7 Manage Genotype tags**

🕅 Current Tags	
Search tag	Update List
"?(ara)	◎ / 前
안녕안녕v안녕	<i>◎ /</i> 前
∆(ar	∅ /² 前
∆(ara)	∅ /² 前
Δ(ara-leu)7697	⊘ /² 前
∆(mrr-hsdrms-mcrbc)	∅ /² 前
∆lacx74	∅ /² 前
Φ80laczΔm15	∅ /² 前

Super-administrator and administrators can:

Check where the tag is used

	Tag Use In Use In <mark>5</mark> Records
	Tag Use In Strains Module Tag Use In Animals Module
Edit the tag 🖉	
	Δ(mrr-hsdrms-mcrbc)
	Edit Tag
	In Use In <mark>6</mark> Records
	$\Delta(mrr-hsdrms-mcrbc)$
	Warning: The tag will also be edited on all the records that use it
	Confirm Change
	Warning: The tag will also be edited on all the records that us

	In Use In 4 Records
v	/arning: The tag will also be deleted on all the records that use it
	Confirm Deletion

Remember to update the list before using it. Staff + users have only the possibility to check tag use. Other user levels can't access to this area.



## **10.8 Lists and Series**

Here, you can retrieve all the lists of records and have the list available later to edit with  $^{ ext{Q}}$  .

Each list has a barcode allowing to be searched more easily.

	Series eries (List of samples to pr	ocess, picklists, requests	_)	
Sec	irch barcode/ID:	Or Keyword:	AND OLDER 🗸 than 15	days Show
27 re	sults found			
Sav	ed Worklists found			
ID	Name	Date	Description	Owner
1	II rterter	09-Oct-2014 14:09:50		Wanda Wong 📿
2	II sqved API	26-Aug-2015 01:04:57		Wanda Wong 🔍
3 📗	II James test tody	04-Aug-2016 23:14:28	james test	Wanda Wong 🔍
4	II JCM worklist 003	09-Nov-2016 01:52:29	worklist demo	Wanda Wong 🔍
5	JCM worklist 004	09-Nov-2016 01:53:29	animals list	Wanda Wong 📿

## **10.9 Staff Contacts**

Consult or print your staff list easily.

	Contacts		Print Staff Directory
<b>1</b>	AdminFullAccess_1 ghalia@agilebio.com J	A	AdminFullAccess_2 ghalia@agilebio.com
A	AdminFullAccess_3 ghalia@agilebio.com	A	adminFullAccess_4 ghalia@agilebio.com

## **10.10 Lab Bookmarks**

+ Add a bookmark either at the bottom or for each category. To Bookmarks can be added by clicking on the define category, refer to section 4.13.

You can also edit or delete 🖉 🗐 each bookmark.

Lab Bookmarks Tools/Lab Bookmarks	+ Add a category
Q Show/Hide all categories	
Ca Test	+ Add a bookmark
Biolab http://www.cri1149.fr/	Pascal 🖉 🗓
test http://devi.agilebio.com/neosoft/admin.php?action=bookmarks_add&cat_id=1380	20
infinity https://app.startinfinity.com	20
لگر Tost2	+ Add a bookmark
D.	+ Add a bookmark
C ghTesti	+ Add a bookmark
C Sollors	+ Add a bookmark
₿ Institue	+ Add a bookmark

#### **10.11 Message center**

A simple and practical messaging system allows users to post messages addressed to everybody on the main page.

💬 User Posts		_
	🗊 Browse messages	🕂 New post

Users can add new messages by clicking on the  $\textcircled{\blacksquare}$   $^{\texttt{New post}}$  .

This					
Title:					
Message:					
🐟 🧀 Styles	+ Format	-   Font -   Siz	e -		
<u>A</u> -	3 Ι Ω 🗄 🗄		Source ?		
Share with:					
	ors				
	ors				
Search groups and us Associate record lir	ks:				
Search groups and us Associate record lir		use first.			
Sharo with: Search groups and us Associate record lin No links to use, ploa Search record	ks:	use first.			
Search groups and us Associate record lir No links to use, plea	ks:	use first.			
Search groups and us Associate record lin No links to use, plea Search record	ks:				
Search groups and us Associate record lir No links to use, plea Search record	ks: se select records to				
Search groups and us Associate racord lin No links to use, plea Search record Duration:d	ks: se select records to	or unlimited)	○ ♥ ○ ₩ ○		
Search groups and us Associate racord lin No links to use, plea Search record Duration:d	ks: se select records to		• ○ ♣ ○ ≝ ○	) 🕶	
Search groups and us Associate record lir No links to use, plea Search record Duration: d Title Icon: () none	ks: se select records to	or unlimited) 1) 🔿 🗩 🔿 😔 🔿 🍕	9 ○ ♣ ○ ≞ ⊂	) 🕶	

Messages can be formatted as on any word processor. Messages can automatically be removed with a time limit expressed in days. A small icon can be selected to give some extra visibility to the message title

on the messages' list.

#### Title Icon: none A O <

Finally, messages can have links to LabCollector records. This can be useful to link to additional information or data commented in the message.

For example, you may want to link to a registration form for a meeting reminder message.

To use this, users must first memorize records (using the memorization icon *on search results)* to link before creating a new message.

You may associate an icon to the message to help users understand the intent.

You can also use Browse messages icon to browse messages.

## **10.12 Recipes/Production**

This "recipe" tool is available to manage production of media, complex reagents, product assemblies and much more. This recipe tool is based on a catalogue of recipes with the components from specific lots within Reagent & Supplies module defined for each "recipe".

Before using Recipes, they must be set up and created by a user with admin access by using Admin  $\rightarrow$  Data  $\rightarrow$  Manage Recipes. In addition, several records with lot/batch information must also exist in the Reagents & Supplies module.

Only the super-administrator and administrators can create recipes (Part 1: Section 10.12.1). All users can then use these recipes (Part 2: Section 10.12.2).

#### 10.12.1 Managing Recipes

#### Part 1: Managing Recipes

With admin or super-admin access navigate to Admin  $\rightarrow$  Data  $\rightarrow$  Manage Recipes. You will be presented with this screen:

Admin/Data/Manage Recipes	Add, Edit, Delete)			
Production Manager (Rec	cipes)		Add Recipe	Categories
E Second Recipe Test	😫 Category I	Only lot consumption	(i) 6 Compo	nents
🖾 Rocotto Piorro	⊜ Category I	Only lot consumption	(i) 3 Compo	nents
CTAB solution	S Category I	Lot on existing product	(i) 3 Compo	nents
Click on the name to	edit or change the recipe	)		

On the first use, you will only have the option to add a new recipe. Clicking 'Add New' will provide a screen to define a new recipe:

Add Recipe	v	Sav
1 Name		
2 Category	No Category -	
3 Description		
Instructions		
4 Steps	Select Component • Qty ± Units • 2	5
	Stop Toxt	3
0	Add Basic Step     Add Component Step      Tokrance is only available with lot quantity modification active     Tokrance is mandatory with multiplier coefficient active     Tokrance is mandatory memory near in a first voltation, impossible with multiplier coefficient active     Tokrance and the second state of the secon	
6 Component Options	Partial recipe allowed 6.1 Accept expired lots 6.2 Milew Lat Quantity Modification 6.3 Allow Multiplier Coefficient 6.4	
7 Final Product		
Туре	Vew product not in stock: 7.1	
	Only lot consumption and no final product 7.3	
	Free choice by user at recipe execution 7.4	
8 Module	Roagents & Supplies *	
8 Module 9 Quantity	Units -	
9 Quantity	Units •	
9 Quantity	Units -	
9 Quantity	Units •  Allow Quantity Modification  Ready to use 8.1	
<ul> <li>Quantity</li> <li>Lot Status</li> <li>Observations</li> </ul>	Units -  Allow Quantity Modification  Recay to use 8.1  On hold 8.2	
<ul><li>Quantity</li><li>Lot Status</li></ul>	Units •  Allow Quantity Modification  Ready to use 8.1	
<ul> <li>Quantity</li> <li>Lot Status</li> <li>Observations</li> </ul>	Units         •                ∑ Allow Quantity Modification                 ∑ Rocay to use               8.1                 ⊙ n hold               8.1                 ⊙ n hold               8.2	

All the steps are explained in the KB: recipe manager.

- 1. A name of the recipe.
- 2. The category for the recipe.
- 3. Description of the recipe must be provided.

4. Here you can see all the steps, whether they are basic or component steps, you can also select the quantity, tolerance and the unit you are working with.

5. You can select to add a basic step or a component step.



After a component is selected, options must be selected for the recipe. The quantity (Qt) and unit (if one is given in the reagent lot) must be specified.

6. Component options: You can also decide if:

- Partial recipes are allowed
- o Only lots within their expiration dates may be used
- o Quantities modification are allowed.
- Allow Multiplier Coefficient: by activating this options, the quantities of your recipe components will get multiplied by the factor you have defined.

Click on the icon <sup>TAdd Component Step</sup> to add and define additional components.

7. Final Product type - choose from four options.

• New products not in stock: this allows the user to add a new record in the module specified in *Module* dropdown and add a new lot in that record. Only the Reagents & Supplies module will have the Final Product Lot Status option. Putting the lot on hold will automatically assign the lot a quarantine status.

You can indicate an expiration interval in days (from the recipe production date) to automatically set up the expiration date.

Final Product		
Туре	Vew product not in stock	
	Lot on existing product	
	🗌 Only lot consumption and no final product	
	Free choice by user at recipe execution	
Module	Reagents & Supplies	-
Lot Status	Ready to use	
	On hold	

• Lot on existing products: this allows the user to add a new lot to an existing record in the module chosen in the *Module* dropdown. Again, only the Reagents & Supplies module will have the Final Product Lot Status option. Putting the lot on hold will automatically assign the lot a quarantine status.

Final Product		
Туре	New product not in stock	
	Lot on existing product	
	Only lot consumption and no final product	
	Free choice by user at recipe execution	
Module	Reagents & Supplies	-
Lot Status	Ready to use	
	On hold	

• Only lot consumption and no final product: as stated, there is no final product.

Final Product	
Туре	New product not in stock
	Lot on existing product
	Only lot consumption and no final product
	Free choice by user at recipe execution

• Free choice by user at recipe execution: the user gets to choose whether to add a new record or add it to an existing one if the Final product module is Reagents & Supplies. The module can be left as a choice as well or it can be designated here.

Final Product		
Туре	New product not in stock	
	Lot on existing product	
	Only lot consumption and no final product	
	Free choice by user at recipe execution	
Designated Module		•
	No Designated Module	
Observations	Strains & Cells	
	Plasmids	
Initial Observations	Primers	
	Reagents & Supplies	<u>ا</u> ا
	Samples	
	Antibodies	Size
	Sequences	

8. You can choose the module you want to assign the recipe to.

9. You can select the quantity of your final product, and choose whether you want to allow quantity modification or not.

- 10. This option allows you to change the lot status.
- This allows you to use the recipe directly that you have created.
- This option allows you to hold the recipe and not allow it to be used. This can be done for example when you want to save the lot for a specific experiment.

**11**.Observations: this section allows the user to add instructions on the method of the recipe or any other information needed.

After all components and options have been entered click "Save" to save the recipe.

<u>After saving</u>, the recipe will appear in a list when navigating to Admin  $\rightarrow$  Data  $\rightarrow$  Manage Recipes. The recipe will also be available for other users who can find it by navigating to Tools  $\rightarrow$  Recipes/Production. The recipe manager provides the option to select a recipe to edit and to view the list of recipes.

	Manage Recip			5	6
_	Production Manager	(Recipes)	. ■ Ade	Categories	
1	🖻 Second Recipe Test	2 S Category I	3 Lot on existing product	4	6 Components
	🗈 Recette Pierre	S Category I	Only lot consumption	(1)	2 Components

- 1. List of recipe names. Clicking the recipe name will navigate to the full recipe details where you will have the option to edit the recipe.
- 2. Recipe description.
- 3. Final Product option.
- 4. Number of components. Hovering the mouse over the number of components will reveal the record names of the reagents and supplies required for the recipe.
- 5. Button to add a new recipe.
- 6. To view categories.

**NEW!:** When there are multiple products coming from different suppliers for the same component, you may

choose to add an alternative one inside your recipe step by clicking on this icon 🖄 located to the right of the component step (See screenshot below).

**NEW!** Recipe now allows multiple lots and takes into consecration lots status i.e. on hold (quarantine), on production and reserved.

nage Recipes n/Data/Manage Recipes (Add. Edit, Delete)							
Add Recipe						√ Savi	e × Cancel
Namo							
Category	No Category	•		Click to a	add an alternat	ive component	
Description							
Instructions							
Stops	S β-mercaptoethanol	*	Qty	±	Units -	2 💼	
	Select Component	•	Qty	±	Units •		
	Add Basic Step         Add Component Step           2) Tolerance is any available with lot quantity modification active         2) Tolerance is mandatary with multiplier coefficient active           2) Tolerance empty modification impossible with multiplier coefficient active         2) Database to quantity modification cline, tolerance to the with disable any modification for		e exact required que	antity			
Component Options	Partial recipe allowed						
	Accept expired lots						
	Allow Lot Quantity Modification						

**NEW!:** You can now use generic quantities, by clicking on Elecated to the right of the basic step, you can then input the quantity and the corresponding unit.

#### Tips/Hints

You now have the possibility to show the seller and/or brand when adding a component step, by going to *Preferences -> Reagents & Supplies -> Recipes*. (See screenshot below).

Q Search for		F	Barcoc	do 🚻
Here John Market M Market Market Mark		⊗ ( Help A	Alerts	ww
Reagents & Supplies Options (Add, edit,) Preferences/Reagents & Supplies Options (Add, edit,)				
Use these	fields to manage the chemicals, reagents or supplies families that you will use to categorize them. Manage also ordering options.			
ିତ୍ତ Main Options 💼 Lot Management 🔗 Risks & Safety 🛱 Orde				
Component Step R&S Options				
Show seller when selecting recipe component step				
Also show brand when selecting recipe component step				
Update & Save				

New! Recipes now have an option to calculate the recipe cost!

#### 10.12.2 Using Recipes

#### Part 2: Using Recipes

After recipes have been created, the recipe tool may be used. First, navigate to *Tools*  $\rightarrow$  *Recipes/Production*.

The production Manager/Recipes main screen is a simple search tool. This provides an option to search for a recipe by categories from the list (created in part 1). The page also allows you to navigate to the log of recipes that have been used (see log section).

Recipes/Production Tools/Production Manager (Recipes)					
Any Category	*	⇔	1	Ŧ	ELog
Select a recipe to view details			Select Recipe		
			Second Recipe Test		
			Recette Pierre		

The recipe selection search bar is both an autocomplete and dropdown menu. Type in the search bar to see autocomplete results or click to view all recipes. After selecting a recipe the following screen will appear.



The screen shows the following:

- 1. The recipe category and name .
- 2. The recipe initial observations.

# Note In case of free choice, there are 3 options to choose from New product not in stock, Lot on existing

Final Product		
Record	1477122207	•
Create Product Lot	Lot Number/Barcode	# Expiration Do Quantity unit 🗸

- 3. To select the type of new product.
- 4. Place to enter the name of the final product.

product and Only lot consumption and no final product.

- 5. Module selector for where the recipe product record will be created
- 6. Fields to add new product lot information: number, expiration date, quantity. Depending f the options, but expiration can be not editable.
- 7. Choose the status of the lot Ready to use or On hold.
- 8. Users must check the box to confirm use of each component
- 9. Details of lot, validity and initial and needed quantities of each component. Depending of the options, the quantity can be modified. The entries are color coded to make it clear if quantities and validity are appropriate for the recipe.

Components	Quantity Lot	Exp. Date	Quantity
Use testadminD 🦻	1 g 139102	29723 2021-10-27	253.00 g
■ Use Record D	50 mL Insuff	icient Stock	
Components	Quantity Lot	Exp. Date	Quantity
🗵 Use An-With-CH-Association 🦻	10 µL Out Of	Stock	
🗵 Use genmab test 🦻	2 µL Out Of	Stock	
Final Product Final Product Name			
Components	Quantity Lot	Exp. Date	Quantity
Use Main storage 🦻	14 g 13182	220617 2024-10-29	2472.00 g
Use Simple storage 5	2 mL 906	035848 ① 2020-03-13	46.00 ml. 🖉
	≣ Ω   \$*   ℝ   ⊕ Source   Β <i>Ι</i> <u>U</u> 4 <u>A</u> - Ω-  ?	5. × <sub>e</sub> × <sup>e</sup>   <u>I</u> <sub>e</sub>   ,≔ :≕   4≋ 4≋   99   ≣ 2	elocted lot is expired at Number: 906035848 Np. Dete: 2020-03-13 valiable: 44.80 ther Available Lots 06055848 (Exp. Date: 2020-08-13 Available Ex0)
		14	84049925 (Exp. Date: 2020-03-19 Availab 17.00) 32468772 (Exp. Date: 2020-02-29 Availab 13.00)

#### 1. LabCollector

DNA extraction solution					
Final Product					
Create Product Lot Number/Barcode	# Expiration D	Quantity unit	~		
Components	Quantity	Lot	Exp. Date	Quantity	
Use β-mercaptoethanol 🦩	200	2028688381	0000-00-00	2500.00	0
Use Proteinase K 🖗	10		① No Expiration	lected Lot is Not The Older (FIFC	(a) R
Use Polyvinylpolypyrrolidone 5	2	234324234	① 2020-12-01 Lot Exp Avr	Number: 2028688381 b. Date: 0000-00-00 allable: 2500.00 ter Lot (FIFO Rule)	
X 10 18 18 18 4 ↔ 195-1∞ = 18 19 10 19 10 10 10 20 X	\$2    22   29 Source   18    -  ?	[ <u>U</u> S ×, x <sup>*</sup>   <u>Γ</u>	(     = 11   +  +  +  +    >>     € ( )   = 1 ( )	8787 (fp. pp. Date: 0000-00-00 Av 30 Rev AvaIdbbi Lotte: 0000-00-00 Av 30 Rel (sp. Date: 0000-00-00 Av 30 Rel (sp. Date: 0000-00-00 Av 30 Rel (sp. Date: 2010-00-00 Av 30 Rel (sp. Date: 2010-00-00 Av 30 Rel (sp. Date: 2010-00-00 Av 30 Rel (sp. Date: 2010-00-00-00 Rel (sp. Date: 0000-00-00 Rel (sp. Date: 0000-	abie: 78.00 ) Available: ible: 92.00) jale: 25.00) valiable: ) Available: Available: ) Available:

Hovering the mouse over the lot or validity information will provide information about the current lot and other available lots. If present, clicking on the icon  $\mathscr{I}$  for a component will allow a selection of a different lot to use.

- 10. You can also include any final observations for the recipe if you have.
- 11. Clicking the "VExecute" button will confirm the recipe. Using "Vectored" button will cancel your action. A new record will be created with links connecting to each component. A log entry will be created. Quantities will be deduced from the indicated lots.

If you attempt to *Execute* a recipe with a lot that has a warning of some kind you will be blocked or forced to confirm despite the warning with a screen such as this:



After completing a recipe the following screen will appear to indicate the record was created and provide two links. One link will take you to the newly created record the other is a direct link to download a recipe report.



You may search the history of recipes that have been used by selecting log from the home screen of the Recipes.

Any Category		Select Recipe	*	🖪 Back To Recip
New product not in stock				
Created Product: HCL buffer_Dec 2020	Created	Lot: 124564578		
Recipe:				
A Tris HCL buffer	Prep. Dat	e: 2020-12-04 19:38:30	Person Responsible: W	anda Wong
Steps:				
1) Use Tris Base				
2) Use Distilled water				
3) Use Conc. HCl				
Components:				
Quantity Constituent	Seller Refere	nce Seller	Lot	Exp. Date
12 g Tris Base			123892161	3 2022-04-2
100 mL Distilled water			517876291	2022-02-2

The log may be searched and will show which components were used as well as lots and quantity information. Each component and product may be clicked to go directly to the relevant record.

- 1. Search for the category and recipe.
- Indication of the Final Product type New Product not in stock/ Lot on existing product/ Only lot consumption and no final product. Created Lot and Product. Clicking on the hyperlink will navigate to the product record.
- 3. You can download the recipe pdf file. You can also see the prep date and person responsible.
- 4. Different steps performed to make the recipe.
- 5. List of components with lot number, quantity and expiry date. Clicking will navigate to each component.

An example of a record for a product with links and the tree view showing the connection of the components to the product.

ID	\$	Name 🌲	Project Code Category	unt
<b>-</b> 776	6	HCL buffer_Dec 2020		7/04 4/00
۵		Creation Date	04-Dec-2020 19:38:30	Storage
ß			Version: 1 (Q View Version List)	Total Stock No Stock
T		Comments & Description	Made from recipe "Tris HCL buffer" on 2020-12-04 19:38:30 by Wanda Wong	Add Storage
5		Category		Availability
2		Seller		Minimum Quantity: 0
		Seller Price		Add To Order List
2		Brand		<u>مو</u>
亡		Seller Reference		
Ð		Packaging Size		
	0	CH: Tris Base 🗳 🚺 CH: Distilled wa	ter 🖬 🚺 CHt: Conc. HCI 🗳 & Add Link 😵 Open Jreeview	
			dmj	

<ol> <li>LabCollector</li> </ol>
----------------------------------

Parents Max Lovel 2 🗸 Childs Max Lovel	3 🗸 😑 🗨 🖉 🕑 🕐		Bhow Archived
Legend: Root node Direct Parent Nodes Upper levels parent nodes Nodes from the same module as root Nodes that are archived All the other nodes	@Reagents & Supplies Conc. HCI		
Normal inks	@Reagents & Supplies HCL buffer_Dec 2020	@Reagents & Supplie	s 🗿
		Distilled water	•
@Reat Tris Ba	gents & Supplies se →		

An example of the PDF report:

				Module: Reagents & Supplies	
Created Lot	Expiration Date	Quantity		Recipe: Tris HCL buffer	
24564578	2022-03-17	5.00 L		Prep. Date: 2020-12-04 19:38:30	
				Person Responsible: Wanda Wong	3
nitial Observations:					
vlake stocks of 1L only.					
For 1 M solution.					
ris Base-12.1 gm dissolve i H: Adjust to 7.4 with conc. I	n 80ml D/W				
H: Adjust to 7.4 with conc. I low adjust the volume of tris	HCL				
	base solution to 100ml				
	base solution to 100ml				
Store at RT.	base solution to 100ml				
	base solution to 100ml				
tore at RT.	i base solution to 100ml		Steps		
tore at RT.	base solution to 100ml		Steps		
) Use Tris Base ) Use Distilled water	base solution to 100ml		Steps		
) Use Tris Base ) Use Distilled water	base solution to 100ml		Steps		
) Use Tris Base ) Use Distilled water	base solution to 100ml		Steps		
) Use Tris Base ) Use Distilled water	base solution to 100ml				
tore at RT. ) Use Tris Base ) Use Distilled water Use Conc. HCI	base solution to 100ml		mponents		
) Use Tris Base J Use Tris Base J Use Distilled water J Use Conc. HCI Naantity Constituent	base solution to 100ml	Cc Seller Reference		Lat	Exp. Date
itore at RT. ) Use Tris Base ) Use Distilled water ) Use Conc. HCI 2 g Tris Base 2 g Tris Base			mponents	1238921613	2022-04-21
Store at RT. 1) Use Tris Base 2) Use Distilled water 1) Use Conc. HCl Quantity Constituent			mponents		

## **10.13 Disposal List Management**

LabCollector C offers the possibility to dispose of lots, that could potentially be contaminated, expired, or that has any other issue.

Please note that only certain user levels that were specified in *Admin -> Preferences -> Reagents & Supplies* can destroy a lot, request its disposal or approve ongoing disposal requests, (this is possible starting from version 5.4 and above). See screenshot below.

	Reagents & Supplies Options (Add, edit,) Preferences/Reagents & Supplies Options (Add, edit,)									
	Use these fields to manage the chemicals, reagents or supplies families that you will use to categorize them. Manage also ordering options.									
®⊚ м	ଭେ Main Options 🔲 Lot Management 🖉 Risks & Safety 🙀 Orders 🛆 Recipes									
الال	s: Units of measurement (Kg,)		🕙 Who can destock units	🕆 Who can add stock units (batches)						
96:	mg	Û	User, Staff, Staff+, Admin	Output User, Staff, Staff+, Admin						
97:	mi	8	O Staff, Staff+, Admin	O Staff, Staff+, Admin						
98:	L	Û	O Staff+, Admin	O Staff+, Admin						
99:	pų	Û	O Admin only	O Admin only						
101:	g	Û	Accept view only groups to destock	Update & Save						
516:	kg	Û	FIFO:  ON OFF							
517:	tube	Ê.	Update & Save							
	(uba									
()										
	Update & Save									

1. To fully dispose of a lot, you will need to first go to the module of your choice, then click on the "*display* 

*lots*" icon located to the left of the record. After that, click on the red "X" button located to the right of a lot to dispose of it. (As shown in the screenshot below).

2		1	Trito	n™ X-1	100	Liquid Chemical	No	50.30		Biore	ad		\$745A254		4 Others	₽0₽₹	80■
۵	10	Curren	nt active	lots													<b>FIFO</b>
& 0	Show	v 5 rg	T	() Cop	y Bosv	Excel	🖨 Print 🛛 🔒 PDF								Se	arch:	
T			$\smile$		Entry Date 🔅	Expiration	Lot #	Qty 🔅			Start Qty		Storage		Comments		
ช ภ	•		200/LT		27-07-2022	△ 01-08-2022	1252311378-A	100.00 ml			100.00 ml	Ø			## LOT DISPOSAL REQUEST BY John J 09/39/23 (BEASON Excited at ) ## (B)		
	•		199/LT		27-07-2022	⚠ 05-08-2022	1252311378	52	¢		100.00	Ø			LOT RELEASED from quarantin	e BY John James Doe	2 🗵
2 0	•		134/LT		29-11-2021	06-12-2023	279060369	995.00 ml	ŧ		1000.00 ml	Ø	Room_Storage 1 > Freezer > Rack_2 > Rack A	u	[BY John James Doe ON 2027	-11-29 11 💌	
린 같	•		110/LT		13-08-2021		1031137845	1	÷	63	1.00	Ø					<b>1</b>
Ð	•		71/LT		10-12-2020	06-12-2023	279060369	14			20.00	Ø	Room_Storage1+Freezer+Rock_2+Rock Al		## LOT DISPOSAL REQUEST BY John J 09:38-48 (REASON: Ontor Error) ## [1	amas Doo ON 2022-12-16 nkon 5 Rv John Jamos Doo ON	
Ē		-	5 of 9 enti		w lot											Previous 1	2 Next

**2.** You will then need to give a reason for disposing the lot. Once done, you can choose between confirming its disposal or requesting for it to be disposed.

Note		
As of ve	rsion 5.4+, you car	n request an approval to dispose of a lot.
📅 Lot Disposal:		
	Lot: 1252311378	
	Quantity:	52.00
	Expiration Date:	2022-08-05
	Reason to dispose:	Contaminated
		Confirm Lot Disposal     Request Lot Disposal       Confirm Disposal     Confirm Request

3. After confirming your choice, the chosen lot will be highlighted in red (as shown in the screenshot below).

Show	r 5 rows	. *	() Cop	by BCsv	Excel	Print							Search:		
		ID CO		Entry Date	Expiration	Lot #	Qty			Stort Qty		Storage	Comments		
0		200/1.T	8	27-07-2022	₫ 01-08-2022	1252311370-A	100.00 ml			100.00 mi	0		## LOT DEPOLAL REQUEST BY John Jumos Doo ON 2022-5 00 38 TO (BLACOV Research of) ## BY John Johns Transform	-18 30:21-02-	
0		109/LT	8	27-07-2022	▲ 05-08-2022	1252311378	52	密	6	100.00	Ø		LOT RELEASED from quarantine BY John James	Doe	2
0		134/LT	8	29-11-2021	06-12-2023	279060369	995.00 ml	*	60	1000.00 ml	0	Room_Storage1+Freezer +Rock_2 +Rock Al	(BY John James Doe ON 2021-11-29 11:2811 FROM	71(1.7)	2
0		no/LT	18	13-08-2021		1031137845	1	\$	63	100	0				
0		71/LT	8	10-12-2020	06-12-2023	279060369	14			20.00	0	Room_Storogo1+ frisuur + Rock_2 + Rook M	## LOT DEPOSAL REQUEST BY Juhn Jumes Dee ON 2022-5 09 19 38 (RESERVE Device Frence) ## Traken 5.8% onten anno		

4. Now, to manage the disposal list, go to *Tools -> Disposal List Management*.

**5.** Select the lot from the *Ongoing request* list and choose whether you want to reject the disposal of the selected item or approve of it. (See screenshot below).

۹	Search f	or_							Barcoo	ie 🏢	
	語 多 口 始 Autor Tools Proferences Admin LabCollector 1940										
Ł		posal List posal List Man			nt		Ongoing Request List     Approved disport	sals	ij Past d	isposals	
🗋 Or		sposal reque	ests (Roc	agents, Chemie		_					
	Check items	or scan barcod	e to mark	them for valida	> Ch	neck					
Disp	osal Requ	Jests									
	Product Name	Category	ID	Lot #	Qty	Storage	Comments	Req. D	ato Roc	ą. By Days	
	Triton™ X-100	Liquid Chemical	200/LT	1252311378- A	100.00 ml	Main Storage >>>	## LOT DISPOSAL REQUEST BY John James Dae ON 2022-12-16 09:38:23 (REASON: Expired lot) ## [BY John James Dae ON 2022-07-27 It/43:44 FROM 199/LT]	16-12-	2022 Joh Doe	mes 0	
	Triton™ x-100	Liquid Chemical	71/LT	279060369	14	Room_Storage 1> Freezer > Rack_2 > Rack A1	## LOT DISPOSAL REQUEST BY John James Doe ON 2022-12-16 09:38:48 (REASON: Order Error) ## [Taken 5 By John James Doe ON 2021-11-17 10:35:06] [TAKEN 1 BY John James Doe ON 2021-11-29 11:28:11 TO CREATE 134[\.T]	16-12-:	2022 Joh Dog	mos 0	
	TBST IX	Liquid Chemical	68/LT	531622174	3	Ground floor > Room X > Cabinet 3 > Shelve 5	## (IO DISPOSAL REQUEST BY John James Doe 04 2022-12-16 09:39:45 (EASOK: Sample QC disapproved) ## [Takan 16 y NAL ON 2021-05-27 15:25:00] [Takan 2 By NAL ON 2021-05-28 17:26:28] [Takan 1 By Souwadet Anner-Loure ON 2021-10-41 [1:14:30] [Takan 2 By John James Doe ON 2022-05-28 15:55:10] [Takkin 1 BY John James Doe ON 2022-05-01 15:73:17 O CRIATE 151/1]	16-12-:	2022 Jan Doc	mes 0	
						< Rej	act Disposal of Selected Items				

## Tips/Hints

If you have a long list of lots, you can also scan the barcode of your lot to find it.

6. You can then go to the *"Approved disposals"* list and click on *"Effectively Dispose Selected Items"* to destroy the lot after selecting it.

	)) ools Prefe	门 (於 rences Admi			LabCollector		(A) Help	Alerta	
Approved d	posci List Mo isposal list ( or scan barcac	Roagents, Chemi le to mark them as	icals, Supplie	s.) >Check	C Ongeing f	lequest I.	Int DApproved disposols	🖹 Past disp	posa
Approved     Product			0	-		2	Prop Party United Pro	VILLE PLAT	- 0-
TEST IX	Liquid Chemical	6 Lot #		Main	Comments [DISPOSAL VALIDATED BY John James Doe ON 2022-11-22 10:52:32   ## LOT DISPOSAL REQUEST BY John James Doe ON 2022-03-01 ItSB14 (REASON khgkhrskljhg) ## Used In Recipe 'BSA Blocking Buffer' on 2020-06-29 18:37:18 by Tusamda Nayana Used In Recipe 'BSA Blocking Buffer' on 2020-07-71 K06:35 by Super Admin [Token 2 mi By Eaber Nathalie ON 2020-11-20 TMA32] Used In Recipe 'BSA Blocking Buffer' on 2020-12-14 H3:52:35 by NAL [Token 1 mi By NAL ON 2020-12-16 H3:62:34] Used In Recipe 'BSA Blocking Buffer' on 2020-07-17 K06:56 by NAL Used In Recipe 'BSA Blocking Buffer' on 2020-07-71 K06:56 by NAL Used In Recipe 'BSA Blocking Buffer' on 2020-07-14 H3:52:35 by NAL Used In Recipe 'BSA Blocking Buffer' on 2021-07-71 K06:56 by NAL Used In Recipe 'BSA Blocking Buffer' on 2021-07-14 H3:42:18 by NAL Used In Recipe 'BSA Blocking Buffer' on 2021-07-71 K06:56 by NAL Used In Recipe 'BSA Blocking Buffer' on 2021-07-18 H3:42:18 by NAL Used In Recipe 'BSA Blocking Buffer' on 2021-07-71 K1:56:55 by NAL Used In Recipe 'BSA Blocking Buffer' on 2021-07-18 H3:42:18 by NAL Used In Recipe 'BSA Blocking Buffer' on 2021-07-18 H3:42:18 by NAL Used In Recipe 'BSA Blocking Buffer' on 2021-07-18 H3:42:18 by NAL Used In Recipe 'BSA Blocking Buffer' on 2021-07-18 H3:42:18 by NAL Used In Recipe 'BSA Blocking Buffer' on 2021-07-18 H3:42:18 by NAL Used In Recipe 'BSA Blocking Buffer' on 2021-07-18 H3:42:19 by NAL Used In Recipe 'BSA Blocking Buffer' on 2021-07-18 H3:42:19 by NAL Used In Recipe 'BSA Blocking Buffer' on 2021-07-18 H3:42:19 by NAL Used In Recipe 'BSA Blocking Buffer' on 2021-07-18 H3:42:19 by NAL Used In Recipe 'BSA Blocking Buffer' on 2021-07-18 H3:42:19 by NAL Used In Recipe 'BSA Blocking Buffer' on 2021-07-18 H3:42:19 by NAL Used In Recipe 'BSA Blocking Buffer' on 2021-07-18 H3:42:19 by NAL Used In Recipe 'BSA Blocking Buffer' on 2021-07-18 H3:42:19 by NAL Used In Recipe 'BSA Blocking Buffer' on 2021-07-10 H3:42:19 by NAL Used In Recipe 'BSA Blocking Buffer' on 2021-07-10 H3:42:19 by NAL Used In Recipe 'BSA Blocking Buffer' on 2	John Jamos Doo	Roq. Dato Valid. By 2022-03-01 John James Dee	Volid. Date	

7. You can also view the list of all lots that were disposed of, by clicking on "Past disposals".

Q Search for											larcode	ш
Hereit Contractions Admin				Lo	bcollector						lerts	
Disposal List Management     Tools/Disposal List Management     Tools/Disposal List Management     Past disposad itoms list (Reagents, Chemicals, Supplies)						[	) Ongoing F	tequest List 🛛 🗋 A	pproved dis	posals 🔋	Past disposa	als
Trashed from by All Contacts	✓ Or Valid	ated by	All Contacts	· ~	Or Requested by All Contacts	eck Re	eset					
Past disposals												
Product Name	Category	ID	Lot #	Storage	Comments	Req. By	Req. Date	Valid. By	Valid. Date	Disposed B	y Disposed D	ate
PBS - Phosphate-Buffered Saline (JOX, pH 7.4)	Buffer	171/LT	763479075	Main Storage >> >	##LOT DESTROYED 8Y John James Doe ON 2022- II-22 105:252 (qty=lo0)##D JOHD JATED 8Y John James Doe ON 2022-11-22 105:232   ## LOT DISPOSAL REQUEST 8Y John James Doe ON 2022- 1-22 105:148 (BASON: research)## [Token 18 y John James Doe ON 2022-04-28 160:330] [Token 2 By Angelique Chaine ON 2022-06-07 15:77.47] [Token 18 y Fabrice ON 2022-06-07 15:77.47]	John James Doe	22-11-2022	John James Doe	22-11-2022	John Jame Doe	<sup>5</sup> 22-11-2022	
Doxycycline	Powder Reagent	157/LT	1603838584	Main Storage >> >	## LOT DESTROYED BY John James Doe ON 2022- 03-14 12:57:52 (REASON: contamination) (qty=5.00)## [BY John James Doe ON 2022-03-14 12:56:24 FROM 156/LT]					John Jame Doe	<sup>5</sup> 14-03-2022	

## **10.14 Memorized Searches**

LabCollector C offers the possibility to memorize your searches, so that you can easily and quickly find what your colleagues have been searching. Down below is a screenshot of the memorized searches page accessible via *Tools* -> *Memorized Searches*.

Q Search for						Barcode
Here in the second seco		Lab	ollector			🛞 🚑 🕕 Help Alerts
Memorized Searches						
	Memorized Sear	ches				
			All Modules		•	
	Search Title	Module	Owner	Share		
	w	Reagents & Supplies	John James Doe	8	1	
	2	Reagents & Supplies	John James Doe	8	1	
	sps	Samples	John James Doe	8	1 🗈	
	Gaz	Reagents & Supplies	John James Doe	81	0 💼	
	DCI	Strains & Cells	John James Doe	8	0 💼	
	DNA samples	Samples	John James Doe	8	0 💼	
	TEST	Samples	John James Doe	81	1	

Here you will find a table with the search title, the corresponding module in which the search was performed, the owner, and share options.

- You can filter the results by selecting the module in which the searches were executed, by clicking on the tab located at the top right corner of the table.
- You can click on the pencil icon to *P* edit your memorized searches, you have the option to edit the search title and/or the share options, you may select one of the 4 following share options.

#### 1. LabCollector

Memorized Searches		
	√ Save	×Cancel
Search Title	gh test	
Share	Private	
	O Share With Group(s)	
	O Share With User(s)	
		×Cancel
<ul> <li>You may set</li> </ul>	sharing your memorized search to private so that only the owner has ac	cess to it.

- Full access : All users can access the memorized search.
- You can also choose want to share it with certain group(s) or user(s).
- Click on the bin icon to delete a memorized search. A new tab will appear asking you to confirm the deletion. (See screenshot below).

Delete Memorized Search
Search Title: gh test
Confirm Memorized Search Deletion
✓ <u>Delete</u> × Cancel
• On the share column, you can see whether the search was shared with all other users $\bigcirc^{\circ}$ (Full Access), Private $\bigcirc^{\circ}$ (not shared, therefore only the owner can use it), with certain user(s) $\bigcirc^{\circ}$ , or
with certain group(s) ໍ້ລືລືດໍ່

- •
- •
- •
- •

- •
- •
- •

## **11. Security**

LabCollector LIMS offers a variety of security and integrity features to ensure that your laboratory data is protected, accurate, and reliable. This chapter will provide an overview of these features, along with detailed explanations and examples of how to use them.

		Un
1.	<b>User Access Management</b>	$\subset \odot$

One of the key security features of LabCollector LIMS is user access management. With this feature, you can control who has access to your laboratory data and what they can do with it. Our software allows you to create user accounts with different levels of access, including **super administrator**, **administrator**, **staff plus**, **staff**, **user**, and **visitor**.

Please refer to <u>sub-chapter 3.2.1.1</u> for more details on LabCollector's hierarchical user management system.

For example, you might create an administrator account for yourself or another authorized person in your laboratory, who would have full access to all data and functionality within LabCollector. You might also create user accounts for laboratory staff members who need access to specific data, such as creating or editing certain records, running reports, or managing inventory.

#### 2. Data Backup and Recovery

Another important security feature of LabCollector is data backup and recovery. With this feature, you can ensure that your laboratory data is safe and secure, even in the event of a system failure or other unexpected event.

LabCollector allows you to create automatic backups of your data at regular intervals, which can be stored either locally or in the cloud. You can also manually create backups of your data at any time, which can be downloaded and stored on your local system.

Please refer to <u>sub-chapter 7.10</u> for more details on how to perform backups.



The audit trail is a feature that allows you to track all changes made to your laboratory data. With this feature, you can ensure that your data is accurate and reliable, and that any changes made to it are recorded and tracked.

We made sure that our audit trail tracks all changes made to your data, including who made the changes, when they were made, and exactly what changes were made. This information is stored in a secure, tamper-evident format, and can be accessed at any time.

For example, if a laboratory staff member makes a mistake when entering data into LabCollector LIMS, you can use the audit trail to identify the mistake and correct it. You can also use the audit trail to track changes made to your data over time, and to ensure that your laboratory processes and procedures are being followed correctly.

Please refer to <u>sub-chapter 7.11</u> for more details on how to use audit trails.

#### 4. Data Encryption

Data encryption is another important security feature of LabCollector. With this feature, you can ensure that your laboratory data is protected from unauthorized access and interception.

Our LIMS uses industry-standard encryption algorithms to encrypt your data both during transmission and while it is stored in the system. This ensures that your data is protected from interception by unauthorized parties, and that it cannot be accessed or read without the appropriate decryption key.

For example, if you need to transmit sensitive laboratory data over the internet, you can be confident that it will be protected from interception by unauthorized parties.

		$\square$	
5	<b>Two-Factor Authentication</b>	· ·	
J.		_	

Two-factor authentication is a security feature that adds an extra layer of protection to your laboratory data by requiring two forms of authentication to access it. With this feature, you can ensure that only authorized users are able to access your laboratory data, even if their passwords are compromised.

LabCollector offers two-factor authentication as an optional security feature. When enabled, users will be required to enter a password and a second form of authentication, such as a security token or biometric authentication, to access their account.

Please refer to sub-chapter 3.1.1 for more details about 2FA.

## 6. CAPTCHAs #

CAPTCHA (Completely Automated Public Turing test to tell Computers and Humans Apart) is a security feature that helps prevent automated bots from accessing your laboratory data. With this feature, you can ensure that only real human users are able to access your data, helping to protect it from unauthorized access.

LabCollector offers CAPTCHA as an optional security feature. When enabled, users will be required to complete a CAPTCHA challenge before accessing their account. The challenge may involve identifying objects in an image, solving a puzzle, or answering a question that only a human would be able to answer.

For example, if an unauthorized user is attempting to access your laboratory data using an automated bot, CAPTCHA can prevent them from gaining access. By requiring users to complete a challenge that is difficult for bots to solve but relatively easy for humans.

Please refer to <u>sub-chapter 3.1.1</u> for more details on how to set-up CAPTCHAs.

7. LDAP/AD and SSO

LDAP/AD (Lightweight Directory Access Protocol/Active Directory) and SSO (Single Sign-On) are features that enable users to log in to LabCollector using their existing corporate login credentials, such as their Microsoft Active Directory or LDAP account. This helps to simplify the login process and provides an additional layer of security.

LabCollector LIMS offers LDAP/AD and SSO as optional security features. When enabled, users can log into our LIMS using their existing corporate login credentials, eliminating the need to create a separate username and password. This can help to reduce the risk of password fatigue and increase user adoption.

For example, if your laboratory already uses LDAP/AD for user authentication, enabling LDAP/AD integration in LabCollector can simplify the login process for your laboratory staff. Similarly, if your laboratory uses SSO for authentication across multiple applications, enabling SSO integration with LabCollector can help to ensure a consistent and streamlined user experience.

Please refer to <u>sub-chapter 3.1.1</u> for more details about LDAP/AD and SSO options.

## 8. Regular pentests and security audits $\bigcirc$

Regular pentests (penetration tests) and security audits are essential components of our security program. These tests help to identify vulnerabilities in your laboratory data systems and applications, as well as the underlying network infrastructure.

LabCollector offers regular pentests and security audits as part of its security program. These tests are conducted by experienced security professionals and cover both the LIMS application and underlying network infrastructure. The results of these tests are used to identify and remediate any vulnerabilities that are identified.

For example, if a security vulnerability is identified during a pentest, we will work with your laboratory to develop and implement a remediation plan to address the issue. This may involve updating the application code or network infrastructure, or implementing additional security controls to mitigate the risk.

Regular pentests and security audits are essential for ensuring the ongoing security and integrity of your laboratory data. By identifying and addressing vulnerabilities before they can be exploited by attackers, LabCollector helps to keep your laboratory data safe and secure.

## 9. HTTPS 📅

HTTPS (Hypertext Transfer Protocol Secure) is a security feature that encrypts the communication between a user's web browser and the web server hosting the LabCollector LIMS application. This helps to protect sensitive laboratory data from interception or tampering by attackers.

LabCollector offers HTTPS as a standard security feature. When enabled, all communication between the user's web browser and the web server hosting our software is encrypted using SSL/TLS encryption. This helps to ensure that sensitive laboratory data is protected in transit.

For example, if a laboratory staff member is accessing LabCollector over an unsecured public Wi-Fi network, HTTPS can help to protect their login credentials and any sensitive laboratory data that is transmitted between their browser and the software.

# 10. Protection against XSS and SQL Injections 🎸

XSS (Cross-Site Scripting) and SQL injections are two common types of attacks that can compromise the security of web applications like that of our LIMS. XSS attacks involve injecting malicious code into web pages viewed by other users, while SQL injections involve injecting malicious SQL commands into web applications to gain unauthorized access to databases.

LabCollector LIMS includes built-in protections against XSS and SQL injection attacks. The application uses input validation and parameterized queries to help prevent these types of attacks.

For example, if an attacker attempts to inject malicious code into our web page using an XSS attack, the built-in protections will identify and block the malicious code before it can be executed. Similarly, if an attacker attempts to inject malicious SQL commands into a LabCollector LIMS web application, the application's built-in protections will prevent the SQL injection from being successful.

We go to great lengths to ensure that your laboratory data is always safe and secure, because we understand just how critical it is to your research and operations. With LabCollector LIMS, you can trust that your data is protected with a comprehensive suite of security features, including regular pentests and security audits, HTTPS encryption, built-in protections against XSS and SQL injections, LDAP/AD and SSO integration, and more. So you can focus on what you do best – advancing scientific discovery – with the peace of mind that comes from knowing your data is in safe hands.

## **12. Expanding LabCollector**

LabCollector capacities can be expanded by integrating Add-on modules which can be 3<sup>rd</sup> party modules, i.e. created in house or by others to perform tasks not originally included in LabCollector.

AgileBio also releases add-ons that are easily integrated into LabCollector. All use the automatic add-on loading system.

In this chapter we describe succinctly the different modules and the few parameters needed to dynamically load components or modules into LabCollector interface.

## 12.1 Add-on modules

Batch generator (Import rack information into database)

This module allows lab staff to directly import data stored as 2D data matrix barcodes of well plates/racks. Use it to catalogue samples information (name, tube position and rack ID) into LabCollector LIMS. This is compatible with most scanners on the market (FluidX, BioMicroLab, Micronic, Thermo ...). FREE/INCLUDED by default in LabCollector license!

# Tube Sorter

This add-on helps you recover dispatched samples on storage and placing them on a working tray. It generates a pick list automatically and the necessary instruction files for the tube sorter robot (Micronic/BioMicroLab, etc). Join the scanner and tube sorter to really improve your efficiency in recovering samples in quantity.

The module also generates Fluidigm EP1 files!

## Electronic Lab Notebook

Now you can save and manage your experiment results with our ELN module. Built as a collaborative platform you can create books and share them with lab collaborators. It is versatile with the possibility to generate Workflows based on specific templates. Use Workflow and page templates for routine work or free and flexible experiment records for your research activity. Organization of experimental data is made in 3 levels displayed by a tree-like browser and easy searched by keywords. Includes integrated certificates management and digital signature content validation.

## Events Calendar

This add-on module will add a calendar system to LabCollector LIMS. Every user can create and share several calendars to manage events. A general shared calendar is visible to all the lab members for common events. Events can be recurrent. Calendar sharing is defined user by user allowing groups to be formed around project calendars. All events can be linked to existent LabCollector records, allowing scheduling of events related to biological actions (ex: blood sampling on patients or animals).

## Equipment Scheduler

Based on our equipment scheduling system LabCal, it adds scheduling & reservation calendar to equipment stored on LabCollector LIMS, Users can quickly check & add reservations to any equipment or facility in the lab. It supports recurrent events (like every day or specific days on the week). It includes a reporting tool to give equipment usage statistics in the past or upcoming events (by user, by equipment or by categories).

It easily integrates by simple copying the files into a folder and automatic database setup from inside LabCollector LIMS. LabCollector v3.912 required.

## Photo Bank

This module gives you a way to store and organize all photos that you generate on your projects like microscopy, electrophoresis, animals, etc. You can create unlimited galleries, into unlimited categories, upload several photos in a click, commenting, etc. It can support TIFF format (and normal JPEG, PNG, GIF) and Movies. It also allows custom media formats definition to help you store/archive any raw image. Linking to samples in LabCollector is possible.

+ Photo Uploader Tool for Windows is also available to speed up charging images to the PhotoBank directly from image source computers.

## Aquarium Facility Management

This module is a complete animal facility management system dedicated to fish growth and transgenese. You can manage fish entries, transfers and exits from tanks, growth, feeding (including live food production), custom and unlimited alerts, etc. It gives inventory and several types of reports. You can manage all kind of aquatic animals including mutants or transgenic breedings. Integrates easily into LabCollector LIMS and it was our first multilingual module.

## LSM - Lab Services Management (Jobs/Assays)

This module will allow a lab to keep track of client samples, gather them on jobs (with workflows/task lists), manage plates and generate or export data into reports and have service history for billing purposes, etc. It will manage any kind of lab service or core facility (analysis, microbiology, chemistry, molecular biology, etc.).



#### SSM - Sequencing Service Management

This module provides the tools to a lab to manage clients and sequencing orders. Users will be able to place orders and check sequencing status and download results. Service admin will manage orders, organize them on plates or single tubes and easily upload results.

It comes with an ABI chromatogram file viewer, integrated for efficient results management. SSM is composed of 2 main interfaces: Sanger sequencing and NGS service managements. The NGS part gives project follow-up tools with result delivery.



#### PTS - Protein Tracking System (Jobs/Production/Purification/Analysis...)

This module is a protein production management system. Integrated into LabCollector PTS allows the lab to follow up different process and task progression in several projects. Users can follow all steps of protein production, purification, analysis...



#### Tasks Organizer

This collaborative tool allows a lab to manage and follow-up any service or tasks. It allows multiple custom forms to be created for a project level and tasks/services level. Progress is monitored and results are uploaded to each item/sample. Remote access for the requesters/clients is possible from an external page.

## Plants Management

This module allows a lab to keep track of seeds, plant growing (trays management). All seeds generations will be tracked. Barcode support and storage management is included. Plant generation navigation is included.

## SNP Genotyping Management

This module allows the management of typical workflow for SNP genotyping labs. It includes assays vials storage and retrieving (pick lists) using machine pickers, preparing plates for Fluidigm EP1, re-ordering of assays to suppliers, etc.

## bata logging (metrology)

This add-on centralizes temperature, pressure, humidity and many more sensors values over time. It includes automatic import from network loggers. All temperature data is stored and displayed graphically. LabCollector samples are then easily associated to temperature charts. GSM/SMS and email alerts can be used for alerting.

# Sample to Box (Free)

This add-on allows to sequentially populate plates or boxes from single vial tubes. Just read tube/vial barcode to automatically insert in a new plate/box map.

## Report Query Builder

This add-on is a visual database query builder to create custom data reports/exports. It follows relations between modules. You can design any type of query with filters to extract part or total of your record relations. You can save queries for later reuse for regular reporting. Reports can be sent to Excel.

## Workflows Management

This module allows the management of workflow templates (a catalog of job workflows) that can be used to start new jobs. All jobs are stored and then status and advancement are monitored. Step validation is possible. Steps are linked to LabCollector data modules for record storage and edition.

# Parser

Parser provides file parsing anywhere using shared folders (local or cloud). Selected values can be automatically imported into LabCollector. Users may defined reader models (templates) within the interface. Only a few details about the the input files and where the data will go in LabCollector are required.

## Collaborative Catalog for Multiple LabCollector implementations

This collaborative catalog allows LabCollector LIMS users to share data from modules across all users of all LabCollector instances. Therefore a LabCollector user can search if a product like antibody, primer, plasmid... is available on other labs or groups of the institute/campus/department, for example. Each lab team chooses which information they want to share with the lab community through an extensible configuration file.

# KoriViewer

This complementary application provides a graphical interface to analyze BLAST results stored in LabCollector LIMS.

# Hulti-Purchase Orders Manager

This application allows administrative department manager to have access to all the purchase lists form the different instances of LabCollector on the enterprise server.

The Purchase Orders Manager will help you to manage the order lists, the reagents, chemicals and supplies but also sellers contact details.

#### Public Database from LabCollector

LabCollector is user access restricted. However in some cases a public database may be interesting to provide a list of lab resources to the community.

For those who need a catalog of resources for the other labs in the same network (same institution for example), we propose a template page that can be customized and giving access to defined custom modules. Users can log in as visitors (you can define a group of external users) to that page and will be given access to "public" modules.

Features include the search engine, but storage and other information were removed.

## **12.2 Add-ons loading requirements**

Download add-ons that you need on <u>LabCollector</u>, and simply upload the zip file on your labCollector page. Go to the add-on from your home page and continue the installation.

Instances hosted by AgileBio may also contact AgileBio to have the add-on included.

## **13. Updating and uploading**

LabCollector is easily updated and upgraded.

The procedure is not exactly the same for an update and an upgrade, but both are performed from the same package.

If your instance of LabCollector is hosted by AgileBio, the upgrade will be performed by AgileBio staff.

## **13.1 Intermediate or corrective updates**

Updates are considered for corrective releases and improvements made to the interface while the database structure remains untouched. Therefore, you just need to replace the software files and folders in LabCollector's root folder.

To recognize an update, it is when the LabCollector's version changes from X.xn to X.xz, for example: from 5.21 to 5.22.

## A Warning

Do not touch to "documents", "backup" and "maps" folders. Also, take care not to alter, delete or destroy "config.php" file.

## 13.2 Upgrades

Upgrades are evolutions in which the database structure has changed (and other files also). So you need to replace the files and folders as for updates. You also need to run the "*upgrade.php*" file through the internet browser.

On this page you will select the upgrade level you are doing and it will automatically execute the changes in the database structure.

Upgrades are identified when LabCollector's version goes from X.nx to X.zx, for example from 4.6x to 4.7x.

On the server computer, access the following address from the browser: <u>http://127.0.0.1/upgrade.php</u>

## A Warning

Do not touch to "*documents*", "*backup*" and "*maps*" folders. Also, take care not to alter, delete or destroy "*config.php*" file.