

LabCollector

"Your Laboratory management solution"

User guide

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Version 5.423



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1- INTRODUCTION

Thank you for choosing LabCollector system for the management of your lab information. LabCollector is an Intranet-based (totally web-based) application which 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, Mac OSX, 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 [knowledge base](http://labcollector.com/knowledge_base) at labcollector.com.

LabCollector is a copyrighted product from AgileBio

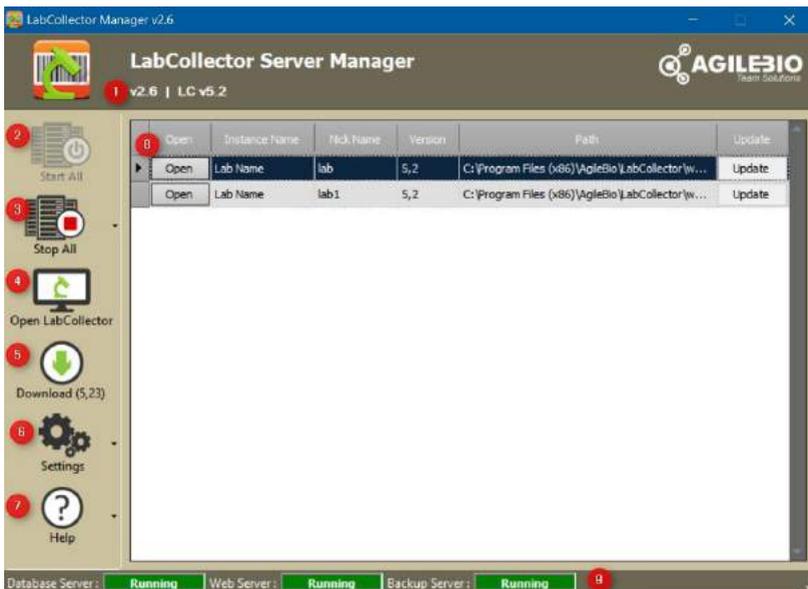
2- GETTING STARTED

LabCollector is a network based system like an Intranet. It can be accessed from all computers on the same local network. LabCollector can also be accessed through the Internet.

2

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 can also be useful for handling updates, backups and migrating data. You may also access LabCollector in an internet browser with one click from the LabCollector Server Manager.



The server manager provides the following information and options:

1. Version of server manager and version of LabCollector
2. Button to start servers

3. Button to stop servers
4. Button to access LabCollector in a web browser. The browser will open in a new window or browser tab.
5. Download/check for updates
6. Settings: various database and server settings may be viewed or changed
7. Help menu and link to latest help including the full manual for the LabCollector Server manager
8. Details and links for individual instances of LabCollector
9. Status of servers

For more information please refer to [KB-20](#).

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

On the LabCollector server you have to call for example:

http://localhost or ***http://127.0.0.1*** or ***http://computer_name*** or ***http://computer_IP***

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

http://computer_name or ***http://computer_IP***

These methods for connecting apply if you used the setup wizard. However, this may change according to manual installation variations. The first time you select browse, you may be given a prompt to update. If this occurs, follow the onscreen instructions for updating and proceed as if you are updating the software.

2-2. First login

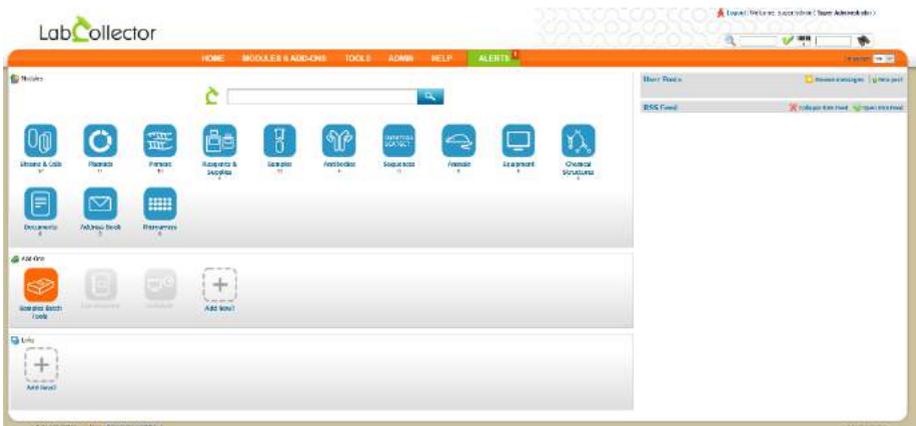
When logging into LabCollector for the first time, you must enter “*admin*” for the User Name and “*admin*” for the Password. You may use this default User Name for future logins, or you may configure individual User Names and Passwords for each user.



The login screen features a white background with a rounded border. At the top, there is a text input field containing the username "admin" next to a person icon. Below it is a password input field with a lock icon, four black dots, a red arrow pointing right, and the text "admin". A prominent green "Sign In" button is centered below the password field. Underneath the button is a blue link that says "Forgot your password?". At the bottom of the screen, an orange bar displays the text "LabCollector v. 5.4".

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

After logging into LabCollector, you will get the following screen:



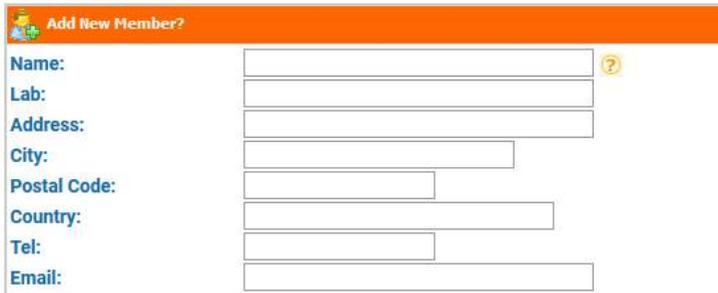
The main user name is the **“Super Administrator”**. The account has full powers to make changes within all of LabCollector.

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**

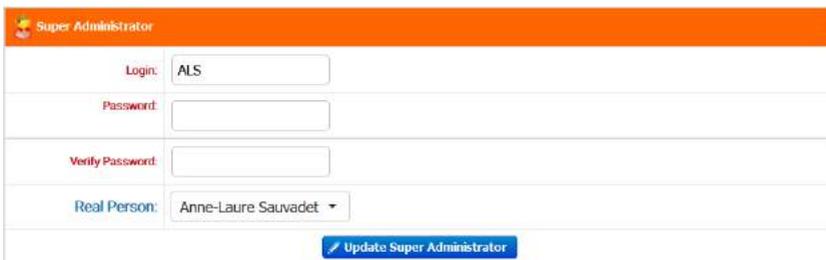
Fill the form. Don't forget to fill the email field in case of password failure.



Add New Member?	
Name:	<input type="text"/>
Lab:	<input type="text"/>
Address:	<input type="text"/>
City:	<input type="text"/>
Postal Code:	<input type="text"/>
Country:	<input type="text"/>
Tel:	<input type="text"/>
Email:	<input type="text"/>

2. Go to: **Admin > Users & Staff > Manage Users**

Edit super administrator login information, change password and associate the super administrator to the corresponding staff contact (Real person).



Super Administrator	
Login:	<input type="text" value="ALS"/>
Password:	<input type="password"/>
Verify Password:	<input type="password"/>
Real Person:	<input type="text" value="Anne-Laure Sauvadet"/>
<input type="button" value="Update Super Administrator"/>	

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 setup, see [chapter 3-1-2](#)). They will be

redirected on a dedicated form they have to complete to receive a password reset mail.

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

2

[Répondre](#)
[Répondre à tous](#)
[Transférer](#)


sauvadet@agilebio.com
sauvadet@agilebio.com

LabCollector password reset

Dear User,

We received a request to reset your password for your LabCollector account.

To reset your password, you must follow the following link:

[reset password](#)

Please ignore this message if you are not the author of this request.

Sincerely,

AgileBio team solution

3- SETUP

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 this setup.**

3-1. Interface & LabCollector main setup

From the setup page, located at [Admin > Other > Setup](#), you can control several definitions and settings for the general functioning and interface of LabCollector.



3-1-1. Login and LDAP options

There are two access modes, defined in [Admin > Setup > Login and LDAP option](#).

- 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 locked: In this configuration, any access to LabCollector requires login authentication.

- “*Password protect Access for browsing purposes*” option: with **YES**, you define total login protection, with **NO** you indicate a semi-open system in which data browsing and search is unrestricted. **Administration is always password protected.**

You can also force internet browsers to not save login and password information.

Authentication and login can also be managed with different options:

Login and LDAP options	
Password protect Access for browsing purposes? <small>(administration is always restricted to password)</small>	<input checked="" type="radio"/> Yes <input type="radio"/> No Avoid saved user/pass in browser: <input type="checkbox"/>
Block user accounts after 3 failed login attempts? <small>(super-administrator will be required to unlock accounts)</small>	<input type="radio"/> Yes <input checked="" type="radio"/> No Send an alert when user is blocked: <input type="checkbox"/>
Password encryption mode? <small>This change cannot be reversed. All passwords will be converted.</small>	<input checked="" type="radio"/> Legacy <input type="radio"/> SHA-256 <input type="radio"/> SHA-256 + strong rules
Activate auto-Screen Lock option? <small>Set a timeout for idle sessions.</small>	<input type="radio"/> Yes <input checked="" type="radio"/> No Timeout (minutes): <input type="text" value="5"/>

- “Block user accounts after 3 failed login attempts” option: with YES, if a user fails three times in his password, his account will be blocked and the super-administrator will be required to unlock it. You can also choose to have an alert sent to the super-administrator when a user is blocked.

- “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 means that the password must contain:

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

Since **version 5.42**, in case of SHA-256 + strong rules, super-administrator gives a temporary password to the user. During the first log in, the new user has to change his password following the strong rules. Same password cannot be used between different user accounts. **! NEW ! The reset of the password is force every 3 months.**



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

- “Auto-screen lock” option: this option allows activating the automatic lock option and set the number of minutes of idleness before locking occurs.

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.

- *“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 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.

LDAP login authentication?
(User login checked on LDAP/AD server)

Yes No

Windows AD OpenLDAP

LDAP server:
(Ex: ldap.corp.com or 192.168.2.100). For secure LDAP, include ldaps://

LDAP domain:
(Ex: research.corp.com)

Domain separator: dc= (default) ou= first ou= and remaining in dc=
or
 Custom DN phrase:

Alternative Attributes:

LDAP attribute	User field
<input type="text"/>	= User name (login)
<input type="text"/>	= E-mail

Users and Staff LDAP/AD can be directly imported: **Admin > Users & Staff > 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.

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.

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

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

The screenshot shows the 'Tasks Scheduler Settings' interface. It includes sections for 'Email' (with a table for task scheduling), 'Customs' (with a table for custom tasks), and 'Exports' (with a table for export tasks and a list of modules). The 'Email' section shows a task named 'LC_EMAIL' with a frequency of 'Daily' and a time of '11:35'. The 'Customs' section has an 'Add New Custom Task' button. The 'Exports' section has an 'Add Export Task' button and a list of modules including 'Reagents & Supplies (chemicals)', 'Strains & Cells (strains)', 'Samples (samples)', and 'Animals (animals)'. There are also 'Export Model' and 'Export Target' dropdowns.

Email alerts 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.

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

3-1-3. Printers and roll types

LabCollector is capable of printing barcode labels easily (see [chapter 7-6](#)). On this page, you can:

- Add your own label templates - see [this KB](#) for a step-by-step guide on customizing a template. To know how to use your Dymo, please refer to the [KB-76](#).



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

Network label Printers (EPL/JSRIPT)		
1	Printer Name: BBP11 Printer host (domain or IP): 192.168.0.212 Printer Resolution: <input type="radio"/> 300 <input checked="" type="radio"/> 600 dpi Printer Language: <input checked="" type="radio"/> EPL <input type="radio"/> JSRIPT	Port: 9100
2	Printer Name: TLP2824 Printer host (domain or IP): 192.168.0.236 Printer Resolution: <input checked="" type="radio"/> 300 <input type="radio"/> 600 dpi Printer Language: <input checked="" type="radio"/> EPL <input type="radio"/> JSRIPT	Port: 9100
3	Printer Name: TLP2824 300 Printer host (domain or IP): 192.168.0.230 Printer Resolution: <input type="radio"/> 300 <input checked="" type="radio"/> 600 dpi Printer Language: <input checked="" type="radio"/> EPL <input type="radio"/> JSRIPT	Port: 9100
4	Printer Name: Brady BBP11 Printer host (domain or IP): 10.5.30.2 Printer Resolution: <input type="radio"/> 300 <input checked="" type="radio"/> 600 dpi Printer Language: <input checked="" type="radio"/> EPL <input type="radio"/> JSRIPT	Port: 9100
	Printer Name: <input type="text"/> Printer host (domain or IP): <input type="text"/> Printer Resolution: <input checked="" type="radio"/> 300 <input type="radio"/> 600 dpi Printer Language: <input checked="" type="radio"/> EPL <input type="radio"/> JSRIPT	Port: 9100

To add a label roll type, you have to fill out 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). Positive size will be considered as a left position and negative a right position. W2 size will add to W width of main label.

Parameters:

W: width of label

H: height of label

LM: left margin on roll

G: gap separating each label

W2: width of second label

Label roll types

1	Roll Name: Brady 1 x 0.5 Label size: W:21/H:12/LM:1/G:3 Size format: Wmm*Hmm*Lmm/Gmm (W: Label Width, H: Label Height, Lf: Left Margin, G: vertical Gap, W2: second label/column) Units: mm (no pixels, no inches). Always round to lower.	<input type="checkbox"/> Default labels
2	Roll Name: CRTH-3000 Label size: W:38/H:13/LM:0/G:3 Size format: Wmm*Hmm*Lmm/Gmm (W: Label Width, H: Label Height, Lf: Left Margin, G: vertical Gap, W2: second label/column) Units: mm (no pixels, no inches). Always round to lower.	<input type="checkbox"/> Default labels
3	Roll Name: Brady 249-492-2col Label size: W:25/H:8/LM:2/G:3/W2:-14 Size format: Wmm*Hmm*Lmm/Gmm (W: Label Width, H: Label Height, Lf: Left Margin, G: vertical Gap, W2: second label/column) Units: mm (no pixels, no inches). Always round to lower.	<input type="checkbox"/> Default labels
4	Roll Name: TH1-249-492-1.5-SC Label size: W:25/H:8/LM:2/G:3/W2:-14 Size format: Wmm*Hmm*Lmm/Gmm (W: Label Width, H: Label Height, Lf: Left Margin, G: vertical Gap, W2: second label/column) Units: mm (no pixels, no inches). Always round to lower.	<input type="checkbox"/> Default labels
	Roll Name: <input type="text"/> Label size: <input type="text"/> Size format: Wmm*Hmm*Lmm/Gmm (W: Label Width, H: Label Height, Lf: Left Margin, G: vertical Gap, W2: second label/column from left (-) or right (+) border) Units: mm (no pixels, no inches). Always round to lower. Examples: CRTH-3000 (1.05x0.5 in) = W:25*H:13/LM:0/G:3 CRTH-3000 (1.3x0.5 in) = W:26*H:13/LM:0/G:3 Brady TH1-249-492-2.5-SC (1 x 0.5 in) = W:25*H:13/LM:2/G:3 Brady TH1-249-492-1.5-SC (0.375 in x 1 x 0.375 in) = W:25*H:16/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)

3-1-4. Rack Scanners

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.

For more information, refer to the [KB-21](#).

Rack Scanners

Scanner Name: Agilebio Scanner IP & Port: 192.168.1.111 Port: 5151 Scanner Model: Ziafh
Scanner Name: <input type="text"/> (give a name or ref to this scanner) Scanner IP & Port: <input type="text"/> Port: <input type="text"/> Scanner Model: Choose

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



3-1-5. **Web Services API**

A new range of applications based on your LabCollector can be imagined and developed. Using LabCollector as a backend database, the laboratory can provide remote information in external catalogs, biological resources, etc. Web or mobile tools can be created. For more information please refer to this [page](#) and [manual](#) (or [contact](#) a representative from AgileBio).

3-1-6. **Lab name, logo, modules name, google translation**

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

You also have access to **language options**. On top of each page in LabCollector, you have a language selector that you can turn off to block the language setup. A default language can also be chosen.

Language options are also possible as the Google *automatic* translation option for 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.

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.

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

Strict search on MySQL content with HTML tags is possible. Just check the box to activate it.

You can also organize and rename the module icons on the home page. Modules' icons can be rearranged by clicking and dragging them up or down. You can also hide modules that you don't need.

The number of search results shown per page can be changed as well.

Built-in Modules Preferences

Define here Modules preferences

1. Drag each row to sort the modules automatically

Rank	Module	Alternate Name	Home Page Display
0	Samples		<input checked="" type="radio"/> Show <input type="radio"/> Hide
1	Strains & Cells		<input checked="" type="radio"/> Show <input type="radio"/> Hide
2	Plasmids		<input checked="" type="radio"/> Show <input type="radio"/> Hide
3	Primers		<input checked="" type="radio"/> Show <input type="radio"/> Hide
4	Reagents & Supplies		<input checked="" type="radio"/> Show <input type="radio"/> Hide
5	Antibodies		<input checked="" type="radio"/> Show <input type="radio"/> Hide
6	Sequences		<input checked="" type="radio"/> Show <input type="radio"/> Hide
7	Animals		<input checked="" type="radio"/> Show <input type="radio"/> Hide
8	Equipment		<input checked="" type="radio"/> Show <input type="radio"/> Hide
9	Chemical Structures		<input checked="" type="radio"/> Show <input type="radio"/> Hide
10	Documents		<input checked="" type="radio"/> Show <input type="radio"/> Hide
11	Address Book		<input checked="" type="radio"/> Show <input type="radio"/> Hide
12	Microarrays		<input checked="" type="radio"/> Show <input type="radio"/> Hide
13	BloodBank		<input checked="" type="radio"/> Show <input type="radio"/> Hide

Results per page

Define number of results to show per page

 **Access to Audit trail**

Allow staff+ to audit trail

 **Visibility for Sample Batch Tools (rack scanner)**

Hide from home

! NEW ! The access to the audit trail can now be open to Staff + user, in addition to the super-administrator and administrators.

! NEW ! Sample batch tools add-on icon can now be removed from the home page. The access can always be done through the Tool menu. For more details about this add-on, please refer to [section 10-4](#).

3-1-7. Export and Print 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.

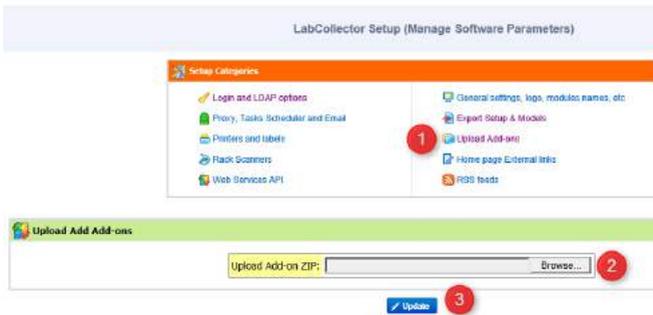
For more information, please read [KB-183](#).

This option is also available to administrator level through

3-1-8. Upload / Add Add-ons

As a reminder, it is a best practice to backup data prior to updating or installing new add-ons.

Download the add-ons that you need on the [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.



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.



You can also create favorite site links through **Tools > Lab Bookmarks > Add new bookmarks**. See [chapter 10-10](#).

3-1-10. RSS feeds reader

“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.

3

Homepage RSS Feed Sources

RSS box expanded by default (If you have a firewall/proxy server, this feature may not work and result in home page freezing. Make sure you define the proxy settings above)

RSS URL: (include http //)
Number of headers: (leave empty or 0 for RSS default)

RSS URL: (include http //)
Number of headers: (leave empty or 0 for RSS default)

RSS URL: (include http //)
Number of headers: (leave empty or 0 for RSS default)

Default RSS feed:

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.



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

3-2. Users

3-2-1. Manage users

Create users:

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

1. Go to **Admin > Users & Staff > Manage Lab Members**
Enter basic contacts for lab staff members.
To see your staff directory, go to **Tools > Staff Contacts**. See [chapter 10-9](#).
2. Go to **Admin > Users & Staff > Manage Users**
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.

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 data and manage settings.

2. Administrator

Just below the super administrator. They can see all data, manage all data from all users and validate waiting data.

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 own data.

4. Staff

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

5. User

This level allows the user to see data, manage their own data but new and edited data will be added to 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.

On the bottom, you have indications on the numbers of user left.

Remove/Archive users:

1. **Admin > Users and Staff > Manage Users**

Archive a user ID by clicking on the trash icon  and also archive associated contact by checking the box if possible or...

2. **Admin > Users and Staff > Manage Lab Members**

Hide users by clicking on the “hide” bottom below the staff ID.

Confirm User Removal (Archiving)

#	User ID	Real Person	Groups	Primary Group	Permissions
13	ElieR	Elie R	Virology;Microbio	No Primary Group	Administrator

This user will be archived and unable to login into the system. Confirm removal?

Also archive associated contact (Real Person: Elie R)
 Unable to archive contact because he's the owner of records

Confirm

 **Lab personnel profiles and account can be archived but not deleted to insure traceability and quality compliance.**

You can reactivate and archived user if necessary by going to “[Show Archived Users \(At List's End\)](#)” and clicking on the green tick icon.

Active Users List

Password size is 10 chars min! MANDATORY FORMAT: Only use 0,1,2,3,4,5,6,7,8,9,_,!,-,~

Show Archived Users (At List's End)

#	User ID	Password	Real Person	Group Policy	Primary Group Restriction	Permissions	IP restriction
2	adm_baker		Adam Baker	Full Access	No Primary Group	Administrator	No restriction
3	alison_jones		Alison Jones	Group1	No Primary Group	Administrator	No restriction
4	anna_black		All contacts	Group1	No Primary Group	Administrator	No restriction

Password size is 39 chars min! MANDATORY FORMAT: Only use 0,1,2,3,4,5,6,7,8,9,_,!,-,~

Update

You can see removed old lab members in the *Hidden/Old lab personnel* tab in Manage Lab Members and reactivate old member profiles if necessary.

3-2-2. Groups definitions

The super administrator can also define ONE group to manage user’s general permissions (confidentiality).

By default, there is only the “Full Access” group. To define the groups:

Go to: **Admin > Users and Staff > Manage group policies.**

You can purchase additional groups if you need more.

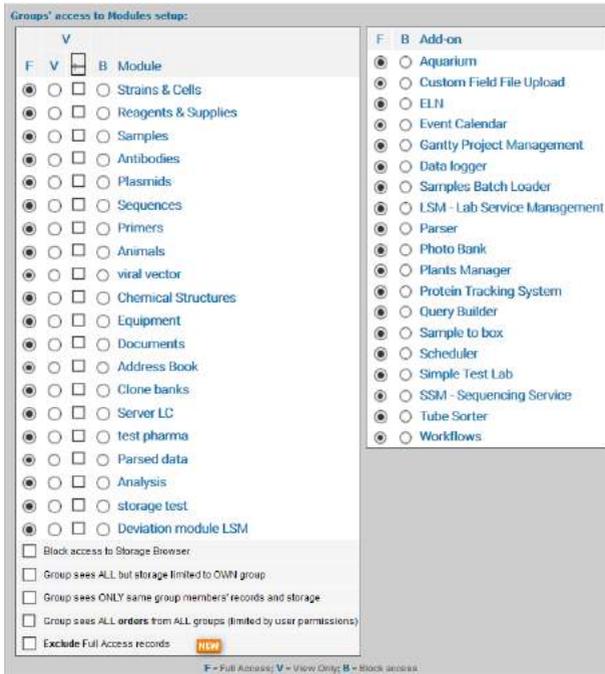
Each group’s rules can be defined to manage the user’s module access, based on 3 options:

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 setup based on 2 options: **F:** Full Access and **B:** Block access – Users can’t enter into the respective add-on.



You can manage storage visualization (options View Only) and the 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 “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 group members.

- Group sees ONLY its own data

By checking “Group sees ONLY same group records and storage” the group members will only see records and storage information from their own group. Data is therefore secured by 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 Full Access records.



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 new 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 > Users & Staff > Manage Users**.

Assign Groups Master Administrators	
Microbiology	No Master Administrator
Administration	No Master Administrator
Vereology	No Master Administrator
Group A	No Master Administrator
Group A storage	No Master Administrator
Group B storage	No Master Administrator
Group C all	No Master Administrator
Group D all	No Master Administrator
<input checked="" type="button" value="Update Groups Master Administrators"/>	

These administrators can create and manage lab members and user accounts for their own group.

Super-administrator and group master administrators can apply more than one group to a user.

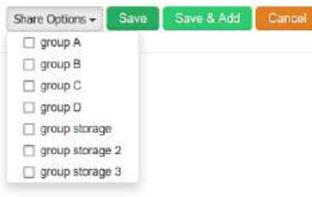
Search User

Show Archived Users (At List's End)

Password size is 30 (has to be MANDATORY FORMAT Only use 0-9, a-z, A-Z and % , / | _ -)

#	User ID	Password	Real Person	In Groups	Primary Group	Permissions	IP restriction	
3	admin full		admin	Full Access	No Primary Group	Administrator	No restriction	
4	staffp		staffp	Full Access	No Primary Group	Staff+	No restriction	
5	user		user	Full Access	No Primary Group	User	No restriction	
6	admin A		admin group A	group A	No Primary Group	Administrator	No restriction	
7	admin B		admin group B	group B	No Primary Group	Administrator	No restriction	
8	admin C		admin group C	group C	No Primary Group	Administrator	No restriction	
9	admin D		admin group DB	group B, group D	group D	Administrator	No restriction	
0	staffp A		staffp group A	group A	No Primary Group	Staff+	No restriction	

Users can choose which of their groups they want to share data with on a record-by-record basis. If a user is in more than one group then their data is shared with all those groups by default. The user can otherwise choose particular groups from the Share dropdown while creating or editing a record.



The administrator can also assign a **Primary Group** to users that are in more than one group. This means that by default their data is shared only with the Primary Group unless they explicitly choose to share individual records with their other group(s) as well.

Refer to our [blog](#) article for more details.



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



A user belonging to groups with conflicting permissions such as Full Access + view only or Full Access + blocked access, LabCollector prioritizes blockages.

3-2-3. Manage authorized IPs

Restriction to data can be setup 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 to an individual user.

Update IP restrictions

office	37.158.29.129#81,47.27.148
SD home	76.167.245.170

[Update IP restrictions](#)

Create New IP Restriction

Name:

List of IPs:

[Add IP restriction](#)

Existing groups settings

Group name: IP restriction: No restriction

Modules and add-ons access definitions:

V	F B Add-on																		
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">F V</th> <th style="width: 30%;">B</th> <th style="width: 50%;">Module</th> </tr> </thead> <tbody> <tr> <td><input checked="" type="radio"/></td> <td><input type="checkbox"/></td> <td>Strains & Cells</td> </tr> <tr> <td><input checked="" type="radio"/></td> <td><input type="checkbox"/></td> <td>Plasmids</td> </tr> </tbody> </table>	F V	B	Module	<input checked="" type="radio"/>	<input type="checkbox"/>	Strains & Cells	<input checked="" type="radio"/>	<input type="checkbox"/>	Plasmids	<table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td><input checked="" type="radio"/></td> <td><input type="checkbox"/></td> <td>Parser</td> </tr> <tr> <td><input checked="" type="radio"/></td> <td><input type="checkbox"/></td> <td>SSM - Sequencing Service</td> </tr> <tr> <td><input checked="" type="radio"/></td> <td><input type="checkbox"/></td> <td>ELN</td> </tr> </tbody> </table>	<input checked="" type="radio"/>	<input type="checkbox"/>	Parser	<input checked="" type="radio"/>	<input type="checkbox"/>	SSM - Sequencing Service	<input checked="" type="radio"/>	<input type="checkbox"/>	ELN
F V	B	Module																	
<input checked="" type="radio"/>	<input type="checkbox"/>	Strains & Cells																	
<input checked="" type="radio"/>	<input type="checkbox"/>	Plasmids																	
<input checked="" type="radio"/>	<input type="checkbox"/>	Parser																	
<input checked="" type="radio"/>	<input type="checkbox"/>	SSM - Sequencing Service																	
<input checked="" type="radio"/>	<input type="checkbox"/>	ELN																	

#	User ID	Group Policy	Permissions	IP restriction
7		GROUP B ALL, GROUP D ALL, GROUP5	Administrator	No restriction
69		Full Access	Staff+	SD home
73		GROUP A Storage	Administrator	No restriction
74		GROUP B ALL	Administrator	No restriction
75		GROUP C storage	Administrator	No restriction

If the users are not using the right IP define 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 an audit trail. Super-administrator and administrators can check the actions history at any time. History is accessed on the **Admin > Other > Audit Trail** menu.

History can be displayed for all or for a particular user, for a defined time period and can be filtered by module. Exporting in excel format can also be done.

View log for past: 15 days or FROM: TO: for Any Module Show 1

Optional criteria:

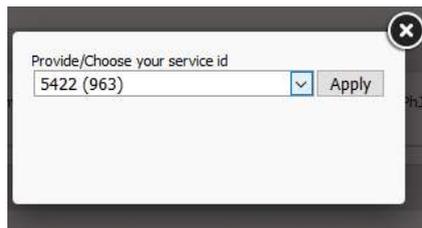
restrict to user: See all users

User	Date	Module	Action
ALS	2017-09-12 16:22:31	SP	update samples record (n° 62)
ALS	2017-09-12 16:19:05	SP	update samples record (n° 60)
ALS	2017-09-12 16:16:38	DC	update docs record (n° 48)
ALS	2017-09-12 16:08:42	all modules	New Inic (ST-111)SP-54 (n° 563)
ALS	2017-09-12 15:04:24	SP	update samples record (n° 39)
ALS	2017-09-12 15:03:55	SP	update samples record (n° 38)
ALS	2017-09-12 14:56:28	DC	update docs record (n° 3)
ALS	2017-09-12 14:53:07	DC	update docs record (n° 3)
ALS	2017-09-12 14:51:43	Preferences	updated record options
ALS	2017-09-12 10:59:59	Importing	IMPORT Validated: antbodies -> Records imported: 35
ALS	2017-09-12 10:56:09	CUSTOM FIELD	custom field legend edition (n° 435)

3-3. Licensing

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

- a) Link your Client Area service to your LabCollector directly.
 1. Hover the mouse over Client Account to see options 2 and 3.
 2. Go to Account – this brings you to the Client Area login page.
 3. Link Account – a popup will appear asking you to log into your client account. Choose your service from the dropdown and click on **Apply**. Your license will be automatically sent to LabCollector.



The screenshot shows the 'License Manager' interface (version: 5.422). On the left, there are statistics: 25 users (21 available), 5 groups (4 available), 16 modules (5 available), and Compliance Pack ON. The main area is titled 'Running in licensed model' and shows 'Your Active Modules' with various icons. Below this, there are sections for 'Your License:' (with a long alphanumeric key and issue date), 'Your Activation Key:' (with another alphanumeric key), and two options to register or update the license: 'Register/update the license online:' (with a note to link an account) and 'Or enter the License manually:' (with a text input field and a '+ Save License' button).

- b) Log into <https://www.labcollector.com/clientarea/login.php>, copy your license key and paste it into the license page – Admin > Other > License. More details can be found in [KB-140](#).

If you can't see your license there please contact support@agilebio.com.

4- PREFERENCES

Preferences are the first customization level of LabCollector to your lab. They are used to define module options like organisms, sample categories...

Some options like primer labels are predefined; others are empty and need to be defined in order 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 **Admin > Preferences**. Only the super-administrator and the administrators can access this menu.

4

HOME	MODULES & ADD-ONS	TOOLS	ADMIN	HELP
Preferences	Data	Storage		
Organisms	Import	Manage Storage		
Reagents & Supplies	Backup	Storage IN/OUT		
Alerts	Mass Price Updater	Import Storage		
Sample Types	Mass Record Updater	Users R&S Consumptions		
Process & Action Types	Delete Multiple Records	Import Batch Lots		
Antibodies Options	Waiting List	Simple Reagents Storage		
Animals Options	Transfer Data	Batch Lots Inventory		
Primers Options	Custom Modules			
Equipment Options	Default Fields			
Documents Categories	Custom Fields			
File Types	Manage Recipes			
Address Book Options				
Export Setup & Models				
Sellers				
Lab Bookmarks				
Reasons				

4-1. Organisms

Organisms are connected to the following prebuilt modules: Strains & Cells, Samples. You need to define a list of the organisms you work with. The list will help you to organize strains, samples and allow for more efficient searches.

Import your list of organisms from a CSV file containing one value per line, then use the **Update & Save** button. Organisms will automatically be displayed in the module selection list. Adding new organisms is limited to administrator level users.

You can also add organisms one by one, just write the name in the “Add new” box and click on the **Update & Save** button. During record addition and record modification in

the modules Samples and Strains & Cell, the super-administrator, administrators and Staff+ users can also add organisms using the popup *Quick Add Organism*.

To edit an organism value, do the correction then click on the Update button. To delete an organism, use the bin icon. This action is possible provided that the organism is not used in a record.

4	Archaea	
3	Bacteria	
11	Cirratulus cirratus	
10	Cirriformia tentaculata	
14	Deinococcus aerophilus	
13	Deinococcus radiodurans	
15	Deinococcus roseus	
12	Durchoniella	
5	Eukaryota	
1	Souris	

Load from CSV (one value per line)

Parcourir... Aucun fichier sélectionné.

Update & Save

4-2. Reagents & Supplies preferences

Use this menu to define a list of reagents and/or supplies that you will use in your lab, their packaging sizes and the units of measure. Categories and packaging sizes will automatically be displayed in the module select list to create new records. You can use the Quick Add function for adding new Categories or Packaging Units while creating a new Reagents & Supplies record.

This menu also allows you to manage the budget accounts needed to process orders.

[More information about Orders List Management](#)

Finally, through the reagents and supplies preferences, you can:

- define the storage mode
- define access to order
- define stock management (Who do what and FIFO option)
- and risks & safety management
- access to order account settings

<p>Who can place orders</p> <p><input checked="" type="radio"/> User, Staff, Staff+, Admin <input type="radio"/> Staff, Staff+, Admin <input type="radio"/> Staff+, Admin <input type="radio"/> Admin only</p> <p>Update & Save</p>	<p>Who can destock units</p> <p><input checked="" type="radio"/> User, Staff, Staff+, Admin <input type="radio"/> Staff, Staff+, Admin <input type="radio"/> Staff+, Admin <input type="radio"/> Admin only</p> <p>FIFO: <input type="radio"/> ON <input checked="" type="radio"/> OFF</p> <p>Update & Save</p>	<p>Who can add stock units (batches)</p> <p><input checked="" type="radio"/> User, Staff, Staff+, Admin <input type="radio"/> Staff, Staff+, Admin <input type="radio"/> Staff+, Admin <input type="radio"/> Admin only</p> <p>Update & Save</p>
---	---	--

For detailed information, refer to the [KB-173](#), [KB-146](#) and [KB-92](#).

4-3. Alerts use (on screen or by email)

LabCollector has an internal alert system for reagent and equipment mainly. This can help your lab maintain routine tasks on time.

Admin > Preferences > Alerts

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



Alerts are also temporarily displayed each time you login to your account:



User and Staff levels do not see all alerts; they only see Reagents & Supplies quantities and expiration alerts.

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



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

4-3-1. *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>Manage Lab Members* and define [email alerts settings](#).

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

1. For quantities alerts, you can choose to check the *"Use the SUM of all lots"*. In this case, when stock total amount is less than the product threshold, an alert will be activated. Otherwise, any single lot with a quantity lower than the threshold will raise the alert. Alerts and colored dots ignore the lots with custom units.



This threshold must be defined in the main record to create alerts.

2. You can also use the validity alert for reagents. You must define the number of days before the expiry date of the product to use as a threshold.

3. An alert based on the wait time for delivery after ordering can be activated. You must define the number of days required for an alert.

4-3-2. *Equipment maintenance*

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.



If you want to use this alert, you have to define the maintenance frequency through *Admin > Preferences > Equipment Categories*.

Please, read [KB-105](#) to learn about the advanced features of the equipment module and maintenance.

4

4-3-3. Waiting data alerts

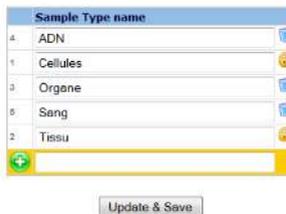
When data are entered by users with “User” level it is flagged on the database as temporary. An alert is displayed on the homepage indicating that some data need validation by an administrator.

To manage waiting data, refer to [chapter 7-1-1](#).

4-4. Sample Types

Sample Types may be found by navigating to:

Admin > Preferences > 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 “add new” box to the right of the + symbol and click on the Update & Save button. Addition of new samples 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 [Delete] 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*.

4-5. Process & Actions Types

4-5-1. 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 > Preferences > Process and Action Types



You can add sample process types and status 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 .

In the Samples module, go to Processes/Tests by clicking on  in the left tab of your sample record.



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

Add New process/Test

Process Type : Select the sub-type

Date: (required format: yyyy-mm-dd if optional: yyyy-mm-dd HH:MM:SS)

Comments & Description:

Process Status:

Process Operator:

***) Required fields**
Add Process

Processes will appear as a list.

Processes/Tests (last 5):

#-SPP	Type	Date
130	BioAnalyzer	2010-07-12 00:00:00
90	Extraction DNA	2008-05-13 00:42:06
85	Extraction DNA: Kit Qiagen	2008-04-02 16:19:06

 **Add new main Process**

#-SPP	Type	Date	Date Updated	Status	Comments	Operator	Star
130	Congelation	2010-12-20 00:00:00		Open		Claire	

 **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 . 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.

 **Documents**

Add Process Report

Sample ID: 5900
Process ID: 50

 **Record Date**

Project Code:

Title:

Description: 

Save **Cancel**

To display all samples processes, you can use this icon .

In LabCollector, you can add processes in bulk to a samples 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 [chapter 10-5](#).

 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.

4-5-2. 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  in the left tab of your record and **Add New Log Entry**.

Add New Log Entry

Date: * 2010-12-20 (yyyy-mm-dd)

Action made: * passage

Comments & Description: vb3hdbaqk3]

Process/action Operator: * Claire

Note that for data integrity reasons, maintenance cannot be edited/deleted later. Enter all required information now.

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

 **Activity log:**

Date	action	operator	Comments
2010-12-20	congelation	Claire	
2010-12-13		Claire	 Edited main storage
2010-12-13		Claire	 Edited main storage ADDED tubes: A8,A9,

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

4-6. Antibodies options

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

Admin > Preferences > Antibodies Options

To create new isotypes, species, markers, applications or purity: enter information in the *Add new box*  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  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.



Isotypes		Species	
1	IgG	4	Human
2	IgM	5	Mouse
3	IgE	6	Rabbit
	<input type="text"/>	7	Goat
	<input type="text"/>	17	Rat
	<input type="text"/>		<input type="text"/>
Markers		Applications	
10	FITC	15	Immunocytochemistry
11	Cy3	16	Western Blot
12	Cy5	18	Flow Cytometry
13	Texas Red		<input type="text"/>
14	Streptavidin		<input type="text"/>
	<input type="text"/>		<input type="text"/>
	<input type="text"/>		<input type="text"/>
Purity			<input type="text"/>
	<input type="text"/>	8	Serum
	<input type="text"/>	9	Purified
	<input type="text"/>		<input type="text"/>

Update Antibodies Options

4-7. Animals options

Use these fields to manage animal categories and status. You can also define animal storage locations.

[Admin > Preferences > Animals Options](#)

To create new Animals categories, status or storage facilities: enter information in the *Add new box*  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  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.



If you want to use the *Cages scheduler* you have to define the room and shelves characteristics as described here.

4-8. Primers options

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

Admin > Preferences > Primers Options

To enter new labels or purity: enter information in the *Add new box*  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.

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.

Labels				Parity	
1	Cy3	<input checked="" type="checkbox"/> 5' side	<input type="checkbox"/> 3' side	18	Bulk
2	6-FAM	<input checked="" type="checkbox"/> 5' side	<input type="checkbox"/> 3' side	17	Purified
3	Amin	<input checked="" type="checkbox"/> 5' side	<input type="checkbox"/> 3' side		
4	Biotin	<input checked="" type="checkbox"/> 5' side	<input checked="" type="checkbox"/> 3' side		
5	Cy5	<input checked="" type="checkbox"/> 5' side	<input type="checkbox"/> 3' side		
6	Digoxigenin	<input checked="" type="checkbox"/> 5' side	<input type="checkbox"/> 3' side		
7	Fluorescein	<input checked="" type="checkbox"/> 5' side	<input checked="" type="checkbox"/> 3' side		
8	HEX	<input checked="" type="checkbox"/> 5' side	<input type="checkbox"/> 3' side		
9	Phosphate	<input checked="" type="checkbox"/> 5' side	<input type="checkbox"/> 3' side		
10	ROX	<input checked="" type="checkbox"/> 5' side	<input type="checkbox"/> 3' side		
11	Rhodamin	<input checked="" type="checkbox"/> 5' side	<input type="checkbox"/> 3' side		
12	TAMRA	<input checked="" type="checkbox"/> 5' side	<input type="checkbox"/> 3' side		
13	TET	<input checked="" type="checkbox"/> 5' side	<input type="checkbox"/> 3' side		
14	Texas Red	<input checked="" type="checkbox"/> 5' side	<input type="checkbox"/> 3' side		
15	Thiol	<input checked="" type="checkbox"/> 5' side	<input type="checkbox"/> 3' side		
		<input type="checkbox"/> 5' side	<input type="checkbox"/> 3' side		

Update Primers Options

4-9. Equipment options

Use these fields to manage the equipment categories. Here you can define maintenance frequency in order to use maintenance alerts. (See chapter [4-3-2](#))

Admin > Preferences > Equipment Options

Equipment Categories		Maintenance Categories		
Centrifugeuse		Nettoyage	with int 6	months
Congélateur		Dégivrage	with int 8	months
Spectrophotomètre		Remplacement lampe	with int	months
Microscopes		Nettoyage	with int 1	months
			with int	months

Update & Save

To enter new categories, enter information in the *Add new box*  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.

Note that leaving the interval empty will eliminate alerting for the category of maintenance.

You can also generate **control chart** in maintenance tab based on **decimal** custom field. Under *Admin > Preferences > Equipment Options*, choose this decimal field and the maintenance category for which you want a control chart. Then, on maintenance tab in Equipment module, once the maintenances 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.

Custom Fields

Main List **Maintenance Tab**

Name	Field Type	Additional Info	Actions
1 <input type="button" value="Add"/>	Technical documents	link <input type="button" value="Database"/> <input type="button" value="Link"/>	<input checked="" type="checkbox"/> ON <input type="button" value="Info"/> <input type="button" value="Print"/> <input type="button" value="Delete"/>
2 <input type="button" value="Add"/>	Temperature	decimal <input type="button" value="Database"/>	<input checked="" type="checkbox"/> ON <input type="button" value="Info"/> <input type="button" value="Print"/> <input type="button" value="Delete"/>

Control Charts

Default field name to use:

Default maintenance category to use:



! NEW ! The final settings boxes on this page specifies which user types can add calibrations and maintenance, and who can access and see these 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.

Who can add calibrations and maintenance

User, Staff, Staff+, Admin
 Staff, Staff+, Admin
 Staff+, Admin
 Admin only

Who can see calibrations and maintenance

All (+ full access)
 Only the group of the person in charge of the equipment (+ full access)

4-10. Document categories

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

Admin > Preferences > Documents Categories

PubMed tool: Define the default category for imported papers

Select Category

Update & Save

Main categories

#	Tab	Category name
1	<input type="checkbox"/>	Protocols
2	<input type="checkbox"/>	Papers
3	<input type="checkbox"/>	Documents
4	<input type="checkbox"/>	Presentations
5	<input type="checkbox"/>	Spreadsheets
6	<input type="checkbox"/>	Images
7	<input type="checkbox"/>	Projects

Update

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

You can also add sub-categories by clicking on . 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.

Main categories >> Protocols

#	Tab	Category name
8	<input type="checkbox"/>	Molecular Biology
9	<input type="checkbox"/>	Cell Culture
10	<input type="checkbox"/>	DNA
11	<input type="checkbox"/>	RNA

Update

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



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

4-11. Address book options

Use these fields to manage the address book categories. To make changes navigate to:

Admin > Preferences > Address Book Options

By checking *User Address Book instead of built-in sellers table*, you have to define your contacts in *Address Book* module. For more details, go to [Seller's management](#).

To enter new categories: enter information in the *Add new box*  of the appropriate 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  icon to remove an option.

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

4-12. 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 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 Management (Add, Edit, Delete...)						
Sellers & Suppliers						Add New
Bibi tifi	54 rue tartanpion	04 72 13 88 03			indelage@yahoo.fr	
Pierre	test street				contact@aglebio.com	
Bt	54 rue tartanpion	04 72 13 88 03			indelage@yahoo.fr	
Fournisseur	Fournisseur	Fournisseur	Fournisseur	Fournisseur email	Fournisseur	
Tiago	test				trrfvaz@gmail.com	
ALS	Plouzané	06080806080			als@aglebio.com	

4

- The second allows you to manage the seller database by means of the *Address book* module. In order to do this you need to identify a seller category through **Admin > Preferences > Address Book Options**. Check the box on this page or in Address Book options.



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

4-13. 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 [KB-183](#).

4-14. 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 > Preferences > Bookmarks**. Bookmarks are accessed on **Tools > Lab Bookmarks** ([see chapter 10-10](#)).

4-15. Reasons

If your lab purchased the compliancy pack, the super-administrator can activate it in the modules of your choice (please refer to the next 5-1 section). Once activated, the versioning is available. Thus, for each modification of the record, the user has to indicated a reason to explain this modification. Pre-set reasons can be recorded under **Admin > Preferences > Reasons**

With this compliancy 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 sign.

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 in order 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 incrementing numbering scheme for records identification. Some modules can support customization of the internal reference field.

5

Only super-administrator can access record preferences.

Go to: [Admin](#) > [Preferences](#) > [Records Preferences](#).

Records references/ID Options							
Module	ID setting	ZERO/FILL	FIELD SIZE	Force Writing	Block Duplicates	Compliance	Automatic Naming
Strains & Cells	<input checked="" type="radio"/> Full-Automatic ID <input type="radio"/> Semi-Automatic ID (editable)	<input type="radio"/> Yes <input checked="" type="radio"/> No	INT(5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Prefix: MRCB
Primers	<input checked="" type="radio"/> Full-Automatic ID <input type="radio"/> Semi-Automatic ID (editable)	<input type="radio"/> Yes <input checked="" type="radio"/> No	INT(9)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	none
Plasmids	<input checked="" type="radio"/> Full-Automatic ID <input type="radio"/> Semi-Automatic ID (editable)	<input type="radio"/> Yes <input checked="" type="radio"/> No	INT(8)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Yes
Samples	<input checked="" type="radio"/> Full-Automatic ID <input type="radio"/> Semi-Automatic ID (editable)	<input type="radio"/> Yes <input checked="" type="radio"/> No	INT(9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	none
Antibodies	<input checked="" type="radio"/> Full-Automatic ID <input type="radio"/> Semi-Automatic ID (editable)	<input type="radio"/> Yes <input checked="" type="radio"/> No	INT(8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	none
Animals	<input checked="" type="radio"/> Full-Automatic ID <input type="radio"/> Semi-Automatic ID (editable)	<input type="radio"/> Yes <input checked="" type="radio"/> No	INT(9)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	none
Equipment	<input checked="" type="radio"/> Full-Automatic ID <input type="radio"/> Semi-Automatic ID (editable)	<input type="radio"/> Yes <input checked="" type="radio"/> No	INT(9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	none
Reagents & Supplies	<input checked="" type="radio"/> Full-Automatic ID <input type="radio"/> Semi-Automatic ID (editable)	<input type="radio"/> Yes <input checked="" type="radio"/> No	INT(9)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	none



CAUTION! 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.



CAUTION! The record name, record ID, project code and optional unique code are distinct.

15	6113-SP	Project Code: Incubation IA (ID: 7)
		Creation Date: 2016-11-01 16:28:02 (Last)
		Optional Unique Code: JCM-SP-42

1: ID

2: Name

3: Project Code

4: Optional Unique Code

- **ID SETTING:**

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

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

You can define it as semi-automatic, numbering will be automatic but can be changed manually at each record entry.

Only administrators, however, can alter this field.

Usages: You can set a new incrementing start, such as to include the year, enter data with passed IDs not filled, etc.

RISKS: auto-incrementing 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.

- **Block Duplicates:**

Record **name** duplication will be blocked. This option only works on Add/Edit forms. Import actions with duplicates will **NOT** be blocked.

- **Compliance:**

The Compliancy pack is comprised of:

- **Versioning** of each record - see [this KB](#) for more information.

Version Number	Recorded By	Modification Reason	Signed By
26	Anne-Laure Sauvadet (2018-12-06 10:28:05)	Test genlab	Anne-Laure Sauvadet (2018-12-06 10:35:50) ✓
25	Anne-Laure Sauvadet (2018-06-27 14:24:51)	test	
24	Marne Sauvadet (2018-05-30 17:35:11)		

- **Read-only** or blocked record. Data are frozen: no modification is possible except for storage —see [KB-158](#) for more information. Reason to lock the record is listed in the audit trail.



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

Version Number	Recorded By	Modification Reason	Signed By
1	Anne-Laure Sauvadet (2015-04-16 10:21:50)	-	Anne-Laure Sauvadet (2019-03-27 12:04:44) ✓ Marne Sauvadet (2019-03-27 12:05:56) ✓

- 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 section [4-15](#).

- 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 or via the Workflow Manager Add-on.
- Data in a custom field type text can be **encrypted** in the database and is only visible in the UI. Search filter and searchable option are not possible in this case.

- **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. Default fields

Default fields are editable and some options are available to set up the form record. Go to **ADMIN > Data > Default fields**.

5-2-1. General options

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

General Options

1	Project Code	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Project Code is a mandatory field on module form
			<input type="checkbox"/> Show Project Code in module summary line
2	Multiple Insertion	<input checked="" type="checkbox"/>	
3	Reagents & Supplies Automatic Link	<input checked="" type="checkbox"/>	
4	Genotype Tag System	<input checked="" type="checkbox"/>	
5	Multiple Owners	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Super Administrator <input checked="" type="checkbox"/> Administrator <input checked="" type="checkbox"/> Staff Plus <input type="checkbox"/> Staff
			<input checked="" type="checkbox"/> Allow sharing between groups
6	Replicate Sample	<input checked="" type="checkbox"/>	
7	Sequence Info	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Length <input checked="" type="checkbox"/> Tm (°C) <input checked="" type="checkbox"/> %GC

For detail information, please refer to [KB-115](#).

A dedicated project code management page is available in **Tools > Manage Project Codes**. For more information, refer to [chapter 10-6](#).

Through **TOOLS > Manage genotype tags**, you can find an admin area. More information can be found [here](#).

5-2-2. Field options

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

Field Options

	Name	Field Type	Mandatory	Summary Line	Active
1	Name	field	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2	Optional Reference	field	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	Optional Unique Code	field	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4	Genotype	field	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5	Organism	select	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6	Related to Organism	select	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
7	Owner	select	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8	Creation Date	date	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	Last Update	date	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Warning: Field Name and Owner can not be disabled!

View Form

View Module Form With Current Options

- You can choose to activate or deactivate fields using the switch button on the right (name and owner cannot be disabled). Note that these fields cannot be completely removed; only hidden by de-activation.
- Fields can be reordered by drag and drop.
- 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.

14 results found | Show/Hide all results on page

ID	Name	Genotype	Organism	Owner	Tissue Organ Ori...	Is Parental Cell a...	Test Yes Cat
238	ST-238		Virus	user:rlste	virus	No	
244	ST-244		Human	Super Admin			
257	ST-257			Super Admin			

The summary line for record 238 is highlighted in red.

- Field type and database name are also visible here.
- For some text fields, the orange icon allows you to activate a mask.

Cruise_Name_and_Year

Field Type: field

Field Mask

Instructions

- If providing basic plain text, just write it.
- If providing intelligent Mask, write it between two ~. Ex: ~(000) 000 A~. Take care that certain fields do not work with intelligent masks (comments, date, etc)
- ~ therefore can be used single time or inside masks. But placed as first and last position in a mask, will be treated as intelligent mask.

Special Characters

- 0 = Any number between 0-9
- A = Any alphanumerical character [A-Za-z0-9]
- Z = Any letter from A to Z [A-Z], uppercase
- z = Any letter from A to Z [a-z], lowercase
- X = Any letter from A to Z [A-Za-z], case insensitive

Note: the Owner field in the Reagent & Supplies module can be activated/deactivated (Owner doesn't exist in Reagents & Supplies in previous versions).

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.

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

5-3. Custom fields

LabCollector enables you to add custom fields to all modules in a very easy way. To have all the information on custom fields, please refer to the [KB-118](#).

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.
2. If possible (module dependent), choose if you want a custom field in the main form or in the Analysis tab (see section 5-3-2)/Maintenance tab (Equipment)/Risk tab and Lots tab (Reagent & Supplies)/Registry book tab (in all modules with storage option).
3. Click **+ Custom Field** to create a new custom field.

List of modules

- Strains & Cells
- Plasmids
- Primers
- Reagents & Supplies
- Samples**
- Antibodies
- Sequences
- Animals
- Equipment
- Chemical Structures
- Documents
- Address Book
- Microarrays
- BloodBank

Custom Fields

Default Fields →

+ Custom Field Verify Fields Integrity Main List Analysis Tab

Name	Field Type	Additional Info	Actions
Technology	select		
+ Primer_Allele_FAM	KASP	field	
+ Primer_Allele_VIC	KASP	field	
+ Primer Common	KASP	field	
+ VIC_probe	TaqMan	field	
+ FAM_probe	TaqMan	field	
+ Forward_primer	TaqMan	field	
+ Reverse_primer	TaqMan	field	
+ fields parser	line_sep		

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

The screenshot shows the 'New Custom Field' configuration interface. It includes the following elements:

- Name:** A text input field with a red circle '1' next to it.
- Helper Text:** A text input field with a red circle '2' next to it. Below it is a tooltip: 'Will be displayed in a tooltip above when mouse is over the field name'.
- Postfix:** A text input field with a red circle '3' next to it. Below it is a tooltip: 'Will be displayed after value'.
- Keyword Searchable:** A dropdown menu set to 'No'.
- Options:** A red box labeled 'Options' containing several checkboxes:
 - Search Filter
 - Mandatory Field
 - Field with unique values
 - Read Only Field
 - Encrypted Field
 - Field Color
- Field Type:** A section with a red circle '4' next to the title. It contains a list of field types with checkboxes:
 - Text Field (With Length: 50)
 - Disallow values that don't match a record's Name
 - Decimal Number
 - Autocomplete Field
 - NCBI Autocomplete
 - URL Link
 - URL Link
 - GPS Coordinates
 - Select List
 - Multiple Choice Select List
 - Yes/No Select
 - Checkbox
 - Date
 - Time
 - Datetime
 - Database Upload
 - Disk Folder Upload
 - Link
 - Tracking Link
 - User Select List
 - Search Intro
 - Line Separator
 - Calculated Field
- Field Location:** A section with a red circle '5' next to the title. It contains:
 - Main List
 - General Field
 - Analysis Tab
 - Registry Book Tab
- Module Page:** A section with a red circle '6' next to the title. It contains:
 - Show Field in Summary Line On Search Result List
- Create Field:** A green button at the bottom.

1. Specify the field name.
2. You have the possibility to add helper text which is visible in modification mode (appears when hovering the mouse on the field and below the field name).
3. You have the possibility to add postfix text as units visible in modification/view mode and on export and print report.
4. Choose the custom field type. For more information, please read the knowledge base [KB-97](#).

5. 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)
6. 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, dropdown select lists, and date types.

To learn more about the options, please read [KB-118](#).

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



5

5-3-1. Custom fields group

Fields can be grouped into specific categories. This helps organizing custom fields for specific usage for different type 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 ().

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

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 line separator and check analysis tab option. It will be used as tab title separator in the analysis tab.
2. Define custom fields in analysis tab.
3. Add/edit or import values in *Analysis tab* by clicking on .



4. Click on tab icons  and  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.



 **CAUTIONS:**

- If you delete a field, all data stored in that field will be lost! There is a warning prior to confirming 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.

5-4. 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. A module editor is located in *Admin > Data > Custom modules*. It is accessible to the Super-Administrator and Administrators.

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It requires a **valid license** that covers this optional feature. For version 5.21 onwards in full license, if you hide a default module under *ADMIN > Setup > General settings, logo, modules names*, it is replaced by a custom module within the limit of 13 modules.

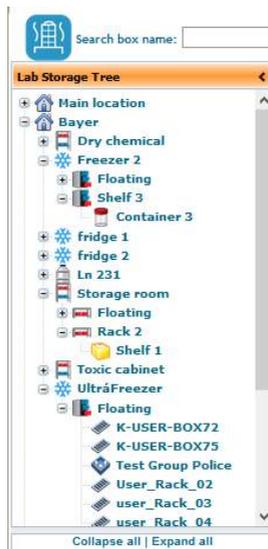
More details in the [KB-75](#).

6- STORAGE SYSTEM MANAGEMENT

There is a storage browser tool to visualize the storage organization of your lab: **Tools > Storage Browser** to view storage and use **Admin > Manage Storage** to edit and define storage.

The hierarchy tree on the left side of the storage browser can be expanded or collapsed. There are 4 levels:

Location → Equipment → Rack/Drawer/Shelf → “Box”



Location level:

The first level gives details about the storage location. You can define buildings, rooms or any location unit. Locations can be renamed on this screen by double-clicking on the location name (except for *Main location*, by default).

Equipment level:

This level gives details about the equipment used as the storage device (freezer, shelf, container, cupboard...). You can define new racks or boxes inside this level. Equipment can be renamed from this screen by double-clicking on the equipment name or by

editing its profile. This is also connected to the Equipment module and can be used in connection with the Data Logger add-on.



A capacity meter visually indicates how full or empty the equipment is. The meter only works when there is a defined number of racks (number + position, floating equipment is not counted).



A capacity meter gives a quick indication of total tubes capacity on all boxes and occupied places.



Only boxes with grids and defined capacities are considered.

Moreover, if your equipment has a temperature sensor related to the LabCollector Data Logger add-on: you can track the actual equipment temperature from the storage browser. For more details see the [Data Logger manual](#).



Racks/Drawers level:

A list of existing boxes is displayed for each rack in the storage equipment.

Ref	Pos.	Box Name	Owner	Features	Tubes	
6		400189527838	Common Box		1 of 1	
34		special format	Emile		5 of 72	

This rack has 2 box positions left on 4 possible positions

From there you can add a new box , duplicate box structure, edit or delete existing boxes (you can only delete boxes not currently in use) and delete all empty boxes in the rack. Box owner can throw away their full boxes (box + content) using . Whole box content can also be replicated as secondary storage .

You can rename the rack by double-clicking on the rack name in the tree or by editing its profile .

You can print all box maps by clicking on the "Print all box maps" button. One box map per page will be printed.

6

If there are space limitations for the rack, it is indicated once this is reached.



Racks can easily be moved, deleted (if they are empty) or added without needing existing boxes. The box map display allows a quick glance at available tube positions on each box stored in the rack as shown in the following pictures. The box can be viewed graphically or as a list. The Box view allows hovering the mouse to provide additional information. Clicking on a sample will direct you to the record's page. If color coding has been implemented a legend will appear.

The screenshot displays two views of the storage system management interface. The top view is the 'Box View', showing a grid of boxes (A1, A2, A3, B1, B2, B3, C1, C2, C3) with a pop-up window for box A1. The bottom view is the 'List View', showing a table of boxes with columns for Position, Name, Volume, Storage comments, and Date created. A legend on the right side of both views identifies colors for Cells, Proteins, Extracts, Project B43, Project Cells14, and PBMC.

Box View Details:

Box A1 details:

- Module: SP
- ID: 3
- Description: barcode beta 1234567890123 45
- Unique code: 5042843583
- Owner: james
- Date created: 2016-05-01 10:45:48
- Volume: 5 mL
- Storage Comment:

List View Table:

Pos.	Name	Vol.	Stor. comments	Date created
A1	test for batch process	1mL	aliquotes made	2016-05-25 09:07:14
A2	test for batch process	1mL	aliquotes made	2016-05-25 09:07:14
A3	test for batch process	1mL	aliquotes made	2016-05-25 09:07:14
A4	test for batch process	1mL	aliquotes made	2016-05-25 09:07:14
A5	test for batch process	1mL	aliquotes made	2016-05-25 09:07:14
A6	test for batch process	1mL	aliquotes made	2016-05-25 09:07:14
A7	test for batch process	1mL	aliquotes made	2016-05-25 09:07:14
A8	test for batch process	1mL	aliquotes made	2016-05-25 09:07:14
A9	test for batch process	1mL	aliquotes made	2016-05-25 09:07:14
A10	test for batch process	1mL	aliquotes made	2016-05-25 09:07:14
A11	test for batch process	1mL	aliquotes made	2016-05-25 09:07:14

Box level:

The final level shows box details and a box map. From there you can edit the box parameters (if you need to move it for example), add samples main and secondary storage by selecting one or more cells and clicking on  and define a cap

insert color for the tube . When adding a tube you need to know the module and either the ID or barcode. These values may be scanned from a barcode reader.

Before using cap insert color options you need to define them through the storage system options: **Admin > Storage > Manage Storage > Options** (See [below](#)).

 Add tubes (in Box: 12345654321blue)

on position: C9, C10

Module: ID:


(Barcode field prevails)

 Add tubes (in Box: color test)

Record: test from Plasmids [246-PL]
on position: B5

Define as secondary storage

Make independent: Check to make each position as independent

Volume: ml

Comments:

Cap insert color for the set:

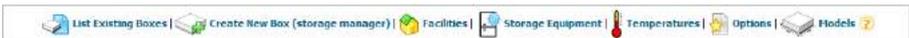
NB 1: Action has NO confirmation.
NB 2: Existing MAIN storage can be replaced ONLY if checkbox is checked

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 > Storage > Manage Storage](#)

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



6-1-1. Defining facilities and locations

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*

The screenshot shows two parts of the interface. The top part is a form titled "Add New Storage Facility?". It has three input fields: "Facility Name:", "Description:", and "Associated to Group:". The "Associated to Group:" field has a dropdown menu currently showing "No group" and a small note "(use this to limit the facility to group members)". A "Save" button is at the bottom right of the form. The bottom part is a table titled "Storage Facilities". It has one row with a yellow lock icon and the number "1" in a yellow circle. The row contains: "Facility Name: ROOM B", "Description:" (empty), and "Associated to Group: GROUP B ALL" (dropdown menu).

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 to a group to limit access (see Groups definitions).

6

6-1-2. Defining temperatures

You can define temperatures through:

Admin > Storage > Manage Storage > Temperatures

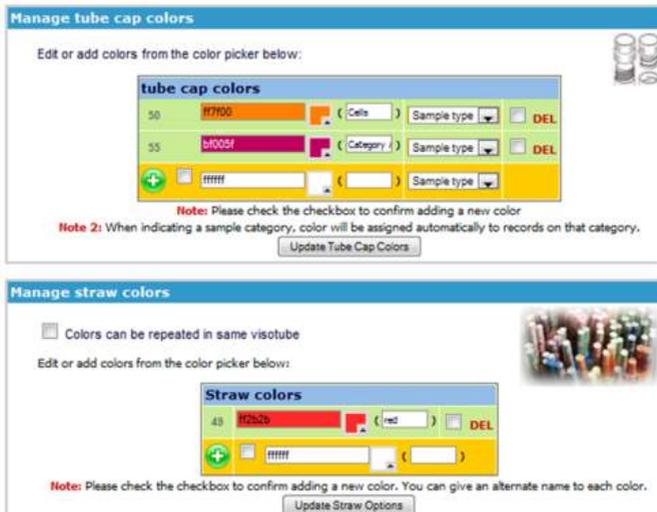
The screenshot shows two parts of the interface. The top part is a table titled "Storage Temperatures". It has six rows, each with a thermometer icon, a temperature value in a text input field, and an action icon (red X or yellow smiley). The rows are: "+25°C" (red X), "+4°C" (smiley), "-20°C" (red X), "-80°C" (smiley), "-168°C" (smiley), and "-196°C" (smiley). An "Update" button is at the bottom center. The bottom part is a form titled "Add New Temperature?". It has one input field labeled "New Temperature:" and a "Save" button.

Temperatures are going to be used for managing your storage equipment. Some of them are predefined and locked. Note that this temperature definition is meant as the ideal temperature for the equipment.

6-1-3. Define storage system options

Through this menu you can define options for storage method, replication storage, tube cap colors and straw colors. Tube cap colors collection will be displayed on the box maps. Here you can define tube cap colors, associate it with sample type (defined under *Admin > Preferences > Sample Types*) and straw colors.

Go to *Admin > Storage > Manage Storage > Options* 



The screenshot shows two web interface panels. The top panel, titled 'Manage tube cap colors', contains a table with columns for ID, color, name, category, sample type, and a delete button. It includes a 'Note 2' and an 'Update Tube Cap Colors' button. The bottom panel, titled 'Manage straw colors', has a checkbox for 'Colors can be repeated in same visotube', a similar table with an alternate name column, a 'Note', and an 'Update Straw Options' button.

tube cap colors					
50	#F7931E	Cells	Category	Sample type	DEL
55	#E06699	Category	Category	Sample type	DEL
	#####			Sample type	

Note: Please check the checkbox to confirm adding a new color
Note 2: When indicating a sample category, color will be assigned automatically to records on that category.

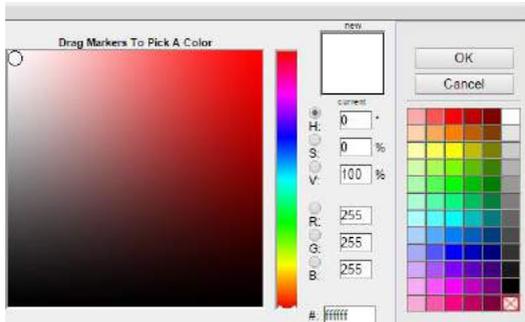
Update Tube Cap Colors

Straw colors				
48	#E52020	red		DEL
	#####			

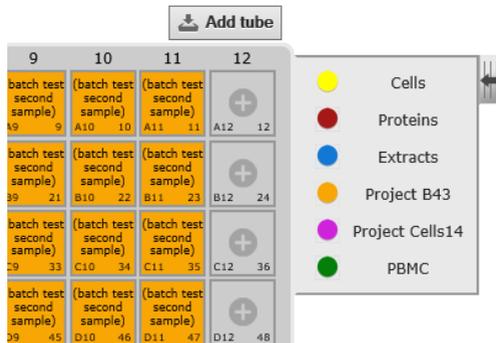
Note: Please check the checkbox to confirm adding a new color. You can give an alternate name to each color.

Update Straw Options

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.



Box view showing color legend.



List view showing legend.

6-1-4. Creating storage equipment

Go to **Admin > Storage > Manage Storage > Storage Equipment**

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 in order 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 [above](#)).

Then click on *Save*. The new equipment will be immediately available on the storage browser.

6-1-5. Creating boxes and racks

You can create new boxes through

Admin > Storage > Manage Storage > Create New Box or Tools > 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 visiotube name/color)

Box/container Description:
This box cannot be a replica box because no master box has been indicated.

Type:

Size: (w: A1->15)
 editor for special format

Storage Equipment:

Tower/Rack/Drawer/Canister N° or reference:

Position: (If new positions already taken: Boxes/Containers List)

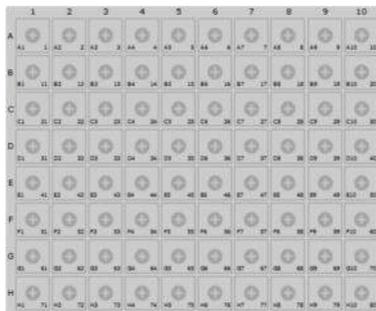
Owner:

Save this box as a model

Model name: (model name is mandatory to save the model data)

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, visiotube for straws, bag/container, and shelf part) and size:

- Box with grid divider:



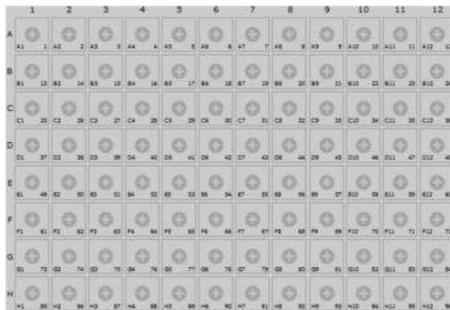
- Box with no grid

Position	Content
----------	---------

- Bag/Container

Position	Content
#1	2-T1

- Microplate or tube tray

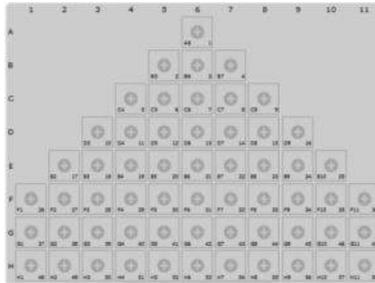


- Visotube for straws (See chapter 6-1-6)

Position	Content
#1	Mouse ALS256/euk5 lignee A1245
#2	45478 45478
#3	CC13 NKY330 27/7 A

- Special format:

If special format is needed click on the  icon to lock box 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.

 **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.**

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

6

Finally, if you want to save this box as a model, choose the option and give the box a name, then click on 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. Note that several common box models are preloaded.

Saved models are displayed in **Admin > Storage > Manage Storage > Models** and can be edited or deleted through this menu.

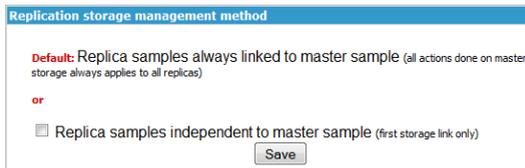
You can also generate a list of box and racks inside a piece of storage equipment by choosing **Auto-fill** . This automatic filling is based on details in the form below.



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

6-1-7. 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 > Storage > Manage storage > Options**



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

Ref	Pos.	Box Name	Owner	Features	Tubes				
72		test-rack_23	Common Box		4 of 96				
172		backup-rack_01	Super Admin		17 of 96				
3		test-rack_02	Common Box		0 of 96				
25		test-rack_03	Common Box		0 of 96				
26		test-rack_04	Common Box		48 of 96				
34		test-rack_05	Common Box		08 of 96				

This rack has Unlimited possible positions

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 . When clicking the replicate box icon you will be given a prompt to define some details about the name and storage information.

6-1-8. Delete or clean a box

With the  icon, you have different options.

- Clean the box from associated records BUT without deleting the box or the records
- Delete the box only
- Delete the box with associated records



 **BE CAREFUL, this action is definitive and cannot be reversed.**

6-1-9. Manage storage for Reagent & 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 > Storage > Manage storage](#).

For more details, refer to [KB-92](#).

6-2. Managing storage equipment contents

At the equipment level, in *Tools > 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.

6

USEFUL! 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 [Add Notice to all samples stored in 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 stored samples

Notification text:

This is a comment that will be added to ALL stored samples and tubes. It can be used to notify that the equipment had a failure and the sample may be compromised.

Send email to owners

Storage	
Add Main Storage	box1   
	5 Tubes 
	D1, D2, D3, D4, D5 
	* Freezer will be warmed and thawed on Monday
	Main Location > Freezer 1
	Owner: Frank

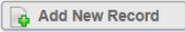


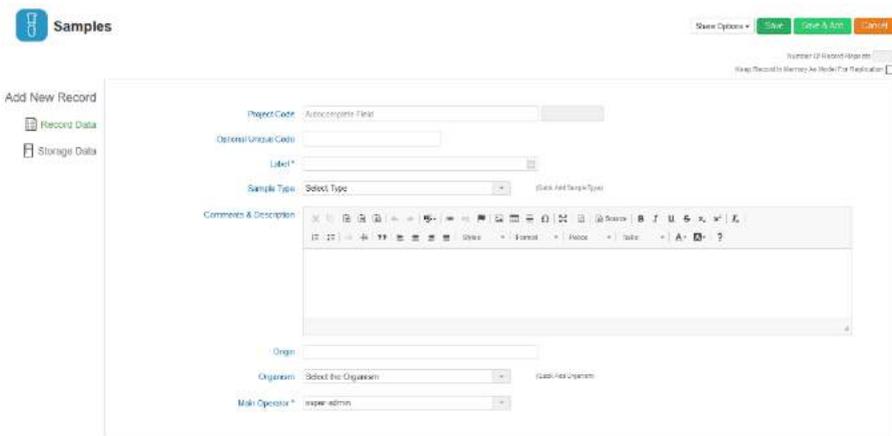
The notification field is limited to 150 characters. Notifications are saved unless field is full.

7- ENTERING AND 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 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 . 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.



The screenshot shows the 'Add New Record' form for the 'Samples' module. The form contains the following fields and elements:

- Project Code:** Autocomplete field.
- Optional Unique Code:** Text input field.
- Label*:** Text input field with an asterisk indicating it is required.
- Sample Type:** Select Type dropdown menu.
- Comments & Description:** A rich text editor area with a toolbar containing icons for undo, redo, bold, italic, link, unlink, list, and other text formatting options.
- Origin:** Text input field.
- Organism:** Select the Organism dropdown menu.
- Multi-Organism*:** Text input field with an asterisk indicating it is required.

On the left side, there is a sidebar with the following options:

- Add New Record (selected)
- Record Data
- Storage Data

At the top right, there are buttons for 'Save Options', 'Save', 'Save & Add', and 'Cancel'. A status bar at the top right indicates 'Number of Record(s) 0' and 'Keep Records Memory As Model For Replication'.

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.

In this case, Storage data is accessible with the tab on the left. Please see section 7-3 for more information on storage.

Default field options can be activated or deactivated. Please refer to the section 5-1.

Record names can add Greek letters using the special keypad on the right.

Each record can be duplicated by clicking on the icon . A new duplicate record will be created with a unique code.

You can choose to link (normal link at the bottom) your duplicate to the master record (Check the box). You must confirm the record by clicking *Save* on the form.



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.

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:



Edit record. Clicking here will open the form to edit a record



Duplicate record. This allows you to duplicate some information about a record. If present the following are *not* duplicated: Storage locations, activity log, processes, annotations, associated files, crossings, Blast tools results, Lots, photobank links, ordering information, display spectrum, equipment schedule, and equipment maintenance.

The duplicated record will automatically link to the original record; however, no other links will be present.



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. This action can be reverted in the archived/hidden record.



In compliance pack. Read-only record. 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 (except for the super-administrator).



Unarchive record. Moves a record from the archive back to the normal listing.



Record locked. In compliance pack. Only the super-administrator can unlock a record giving a reason that will be displayed in the audit trail.

Sign record. In compliance pack. To sign the locked record. Signatures will be shown in the version list.



Delete record. Availability of this action is limited to minimize unintentional data loss.



Print record. Allows printing of a single record.



Memorize record. Places record in a list of memorized items. Accessed via *Tools > Manage memorized items*.



Generate barcode label. Brings up a menu for barcode printing.



Add to order list. Allows the addition of the item to the purchase management system.

Indicates that the item is in the order list.

The following icons appear to the left of a record. Clicking these icons will provide particular details. Some of the icons are module specific.



Open record. Opens record for viewing.



Display record. Returns to the record view after viewing other tabs.



Display related records. Note: requires specific naming conventions.



Derive sample. Creates a new record in the samples module. Some information relating to the original record will be prefilled, including a link to the original record.



Analysis tab. A location for custom fields relevant to analytical results.



Activity Log. Records actions for storage. Also allows user to enter customized activity.



Display Storage. Shows a list of all storage information. Multiple viewing options are available.



Photobank link. Link to photos, albums and other media stored in photobank are linked to the record. Requires photobank 3.0 or higher.



Display Reagent & ordering information. Creates a link to Reagent and supplies to allow ordering.



Display lots. Shows lots of the product.



ELN link. Link to where record appears in the ELN. Requires the latest version of the ELN and LabCollector 5.24 or higher.



Workflow link. Link to where record appears in the Workflow.

Requires the latest version of the Workflow and LabCollector 5.4 or higher.



LSM link. Link to where record appears in the LSM. Requires the latest version of the LSM and LabCollector 5.4 or higher.



Display Processes. Shows a list of processes done with a sample.



Display crossings. Shows the crossings with an option to view the genealogy tree.



Display comments. Tab for comments.



Manage sequence annotation. For plasmid or sequence annotations.



Sequence and map. Displays the sequence and map. Multiple viewing options are possible.



Add to synthesis order. Primers module only. Quick link for ordering Primers.



Primer in the synthesis order list. Primers module only.



Display sequence bioinformatics tools



Display sequence blast tools



Display related files



Display spectrum. Displays a spectrum. Note: JDX format required.



Indicates stock. Reagent & Supplies module only. Indicates as available, low number of units, out of stock.



Link to other data.



Display Maintenance. Equipment Module only. Shows the record of maintenance and allows updates to maintenance.



Equipment Schedule. Equipment Module only. Shows the schedule for the equipment.

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 > Data > 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.

Modules	Del? Initial	Ref	Name	Genotype	Organism
Strains			strain Max4306		Pneumoniae

Change all to owner: no change [v]

Process Strains

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.

The screenshot displays a software interface with a top navigation bar and three data tables. The first table, 'INTERFERENTIAL EXPERIMENTS', has columns for Project, Book, Experiment, Page, Author, Date Updated, and Status. The second table, 'Workflows', has columns for Job Name, Status, Progress, Start Date, and End Date. The third table, 'Lab Service Manager (LSM) Samples', has columns for Respector, Sample, Sample Shipment, Job Number, Job Date, and Job Status.

Project	Book	Experiment	Page	Author	Date Updated	Status
INTERFERENTIAL EXPERIMENTS		Birth Sample Learn1 89	Animal P01 1250	Anna Laura Sawchen	2025-12-01 22:06:30	APPROVED

Job Name	Status	Progress	Start Date	End Date
LAB 1.2535	Running	0%	2025-10-21	2026-10-21

Respector	Sample	Sample Shipment	Job Number	Job Date	Job Status
Melinda A	BB01	Scheduled	3005-14	2025-06-01	Pending

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.

To add new animal records click on the top-right link **Add New Record**. A form will be displayed to enter data according to the module.

OR

You can add animal records through the **Cage facility plan (Cage options)** by clicking on **Add New Cage > Create New Record** if you want to add animals in a new cage or on  if you want to fill an existing cage.

 Before adding animals through the cage facility plan you need to define animal storage facilities through **Admin > Preferences > Animals options**. For more information, see the [chapter 4-7](#).



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.



You can also easily move cages between rows, shelves and rooms by drag and drop.

Clicking the  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.

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:



The following view shows the ability to edit or define an animal's cage from the popup that appears when editing a record.



Also look at our video [online](#).

7-2-1. Room Scheduler

 Before using this application, you need to define animal storage facilities like room and shelf characteristics (**Admin > Preferences > Animals options**). For more information, see the chapter [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.

Cages Scheduler Rooms: Birth

Select reservations from 2015-10-20 to 2015-11-15 **Go**

User	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Anne-Laure Sauvadet	0	0	0	0	5	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0
Taken	0	0	0	0	5	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0
Max available	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10

Close window

1. Choose a room where you want to make a cage reservation.
2. If you make your first reservation, click on **Add me to this Schedule!**
3. Choose your reservation dates using the calendar.
4. Click on the date and replace 0 by the number of locations that you need.
5. Close the window when finished.

Note:

Taken = number of locations already reserved

Max Available = total number of locations

7-3. Storage stock

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 dropdown menus. Then indicate vial coordinates on the storage selector by clicking the box to the right of 'Position in Box'.

Edit Record

- Record Data
- Storage Data**

Storage Location: Freeze House >>> Automatic sample freezer (-)

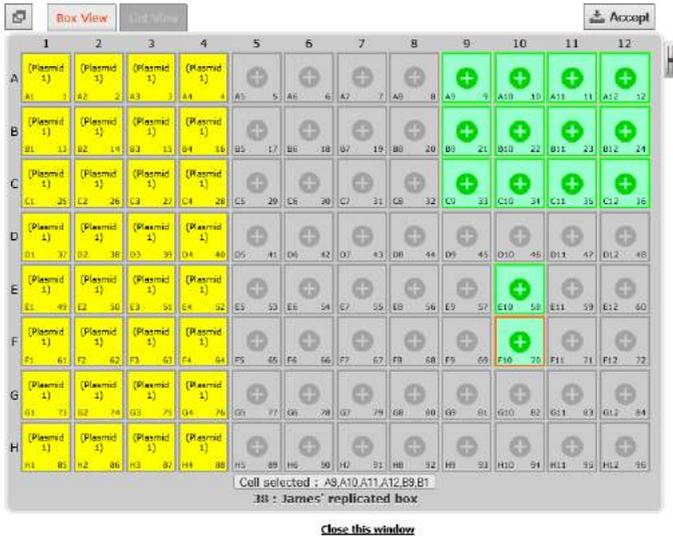
Locate Available Places

Box: LC1 (Common box)

Position in Box: A1,A2

Storage Comments and Color: Can insert color for the set

Volume: 0.5 mL



Generic steps for assigning tubes/vials:

- 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 > Storage > Manage storage > Options](#)).
- Indicate a volume. Only in mL for the moment.
- Save the record or the storage by clicking update/save.



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.

Storage

Box details	Storage edition	Storage deletion
RACK01.B-2 3 Tubes (2 mL) A1, A2, A3	Worms_CO1 6 Tubes (2 mL) A2, A3, A4, A5, A6, A7	Tube deletion Box map
Main Location > Congel_1 > RACK01	Freeze House > Freezer D Lab51 > Owner: Anne-Laure Sauvadet	
Worms_CO1 1 Tube (2 mL) B2	Worms_CO1 1 Tube (2 mL) B3	
Freeze House > Freezer D Lab51 > Owner: Anne-Laure Sauvadet	Freeze House > Freezer D Lab51 > Owner: Anne-Laure Sauvadet	
Worms_CO1 1 Tube (2 mL) B4	Worms_CO1 1 Tube (2 mL) B5	
Freeze House > Freezer D Lab51 > Owner: Anne-Laure Sauvadet	Freeze House > Freezer D Lab51 > Owner: Anne-Laure Sauvadet	
Total Stock: 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:

- 1) Through record display:

You can define a storage place directly from the record entry in a module:

- Search for the record you want to manage in the module.
- Expand the record data.

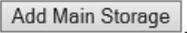
 2	(2) rfvsd	B. subtilis
 3	(3) E. Coli B NF541	E.Coli

- On the right, a storage table is provided.

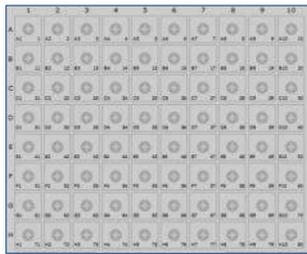
- Click on the “Add main storage” link if available (only admins, the super-admin and the record owners can add main storage).



- Follow generic steps for assigning tubes/vials:
 - 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).
 - Close the interactive pop-up map window by clicking on the “Keep selection...” button.
 - 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.
 - 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*)
 - Save the main storage by clicking the Add Main Storage button



- 2) Items may be added through the storage browser. Find the desired box in the storage browser. Then click to select one or more slots  and



A pop-up will open and you can select the record to add by typing the ID or scanning a barcode. Through this pop-up, 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.**



The ID and the barcode are different. The ID number is found at the far left of the record entry next to the icon  when viewing records. The barcode also includes the module identifier code and can be checked manually by clicking the barcode icon  when viewing a record.

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:

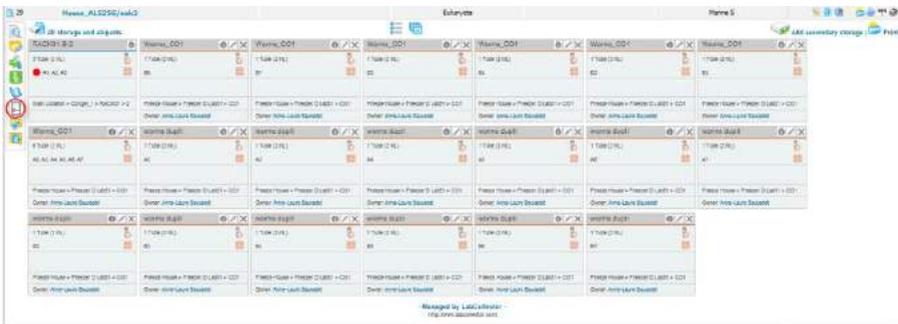
Through modules:

- Search for the record.
- Expand the record data by clicking .
- On the right, follow “Add secondary storage” link.



- Follow steps as described for main storage above.

To display all storage boxes, click on “All secondary places”.



7

Any main or secondary storage can be edited and deleted. Use the [specific icons](#) (this can only be done by administrators and the record owner).

Edit via the storage browser by clicking on  and  :

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.

Add tubes (in Box: Special box)

Record: **WIVV from Strains & Cells [7-ST]**
 on position: **C5, C6, C7, C8, C9, C10**

Define as secondary storage

Make independent: Check to make each position as independent

Volume: ml

Comments:

Cap insert color for the set:

Save

NB 1: Action has NO confirmation.
NB 2: Existing MAIN storage can be replaced ONLY if checkbox is checked

7-4. Removing and adding aliquots, tubes or main storage

7-4-1. Aliquots management

To manage aliquots, you can use the secondary storage system:

- Click on the “Add secondary storage” link as described above (see chapter 7-3-3)
- Once the storage place, box and box position is selected, check the “Make independent” box.

Storage Box Management
 For: Mouse_ALS256/euk2 (Strains & Cells)

ADD Complementary Storage ?

Select Storage Place (Locate empty places)

Select Box

Position in Box

Stock Contact/owner *

Storage options

Make independent Check to make each position as independent storage (ex: aliquots)

Volume / Quantity ml

Comments:

Optional Unique Code:
(ex: 2D code on tube bottom, working barcode...)

Cap insert colour for the set:

Add Secondary Storage

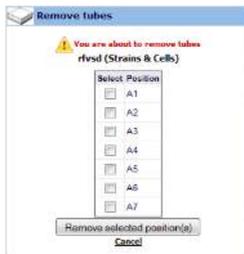
This option allows the independent management of each tube which will be assigned its own editable barcode and can, in addition, have an existing barcode associated to the tube. The unique identifier/barcode and any additional information can be seen when viewing the storage details.

Location	Equipment	Box name	Box rack pos	Tube pos	Unique Code	Vol	Owner	Comments
Station 1	songel 2	Box 1	Rack Fixating 1	A2			Enrica	
Station 1	songel 2	Box 1	Rack Fixating 1	A3			Enrica	
Station 1	songel 2	Box 1	Rack Fixating 1	A4			Enrica	
Station 1	songel 2	Box 1	Rack Fixating 1	A5			Enrica	
Station 1	songel 2	Box 1	Rack Fixating 1	B1			Enrica	
Station 1	songel 2	Box 1	Rack Fixating 1	B2			Enrica	
Station 1	songel 2	Box B	Rack Fixating	H6			Enrica	
Station 1	songel 2	Box B	Rack Fixating	H7			Enrica	
Station 1	songel 2	embibox		E1		1.5 mL	Enrica	
Station 1	songel 2	embibox		B2		2 mL	Enrica	ignia deriva es...
Station 1	songel 2	embibox		B3		2 mL	Enrica	
Station 1	songel 2	Box B	Rack Fixating	H2			Enrica	

7-4-2. 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 . When you click on it, a pop-up appears:



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.

7-4-3. Volume deduction

An automatic remove volume option can be used if tube volumes quantities are defined. To use this option, you have to click on the remove tube icon . You have then to fill in the form:

1. Indicate the volume to remove. If you have decimals, please DO NOT USE commas.
2. You can choose an action relative to your deduction (see section 4-5-2).
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

PI_SPS2_I2 (Strains & Cells)

Volume Removed: mL

Optional Action:

Derive from volume (optional)

Optional name suffix:

Module to:

Sample Type:

Note: Do not use commas

All the information is then summarized in the activity log of the record.

ID	Name	Genotype	Organism	Related to Organism	Owner
8	PI_SPS2_I2				Anne-Laure Sauvadet
Activity log:					
Date	Action	Operator	Comments		
2019-04-01		Anne-Laure Sauvadet	DERIVED into new record from E8 taken 1 mL TO (SP - 884)		
2019-04-01		Anne-Laure Sauvadet	Tube volume removed (sec.) [for Test RTPCR] BOX.A45 : E8 = 1 mL		

7-4-4. Move tube

Tubes can be moved from one position to another or from one position to many positions by using the same icon . The popup offers you the option of moving the tube by clicking on . Then, as before, fill out the storage form then click on *Move it*.

Remove The Tube:

Remove	Position	Move
<input checked="" type="checkbox"/>	A1	

PI_SPS1_I4 (Strains & Cells)

MOVE tube(s) from A1 to:

Select Storage Place

Available Position: A1
[Locate More Available Places](#)

Select Box

Position in Box

Stock Contact/owner

7-4-5. 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 chapter 10-5). This function is available for all modules.

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 > 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 [chapter 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.

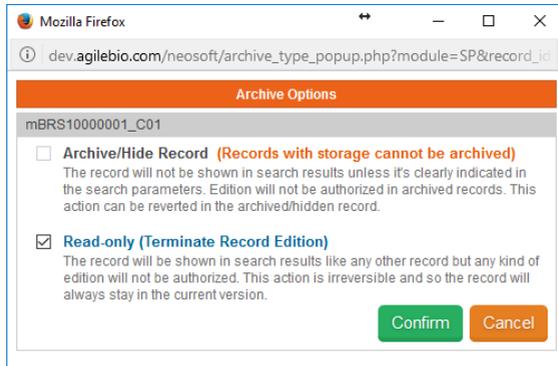
7-4-6. Adding new tubes/vials

To add new tubes to the box, use the  icon on the box table. Newly added tubes will be saved as an action on the activity registry log if it exists in the module.

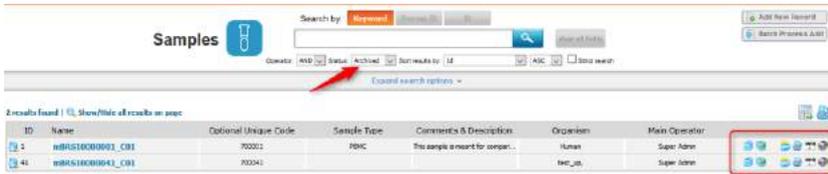
7-5. Edit, archive and delete records

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 () , archive/read-only () and delete () icons. They are only accessible to administrators and data owners.

 **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/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.**



7

Read-only Record. Only available with the **Compliance 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.

Versions List			
Version Number	Modified By	Modification Reason	Signed By
1	Admin group B (2018-01-06 at 11:36:44 AM)	Blocked sample	Admin group B (2018-06-01 11:37:20) 

For more information, please read the [KB-171](#).

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 chapter 10-5). 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 > 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 [chapter10-5](#)).
5. Click on the “Archive all records” button. A pop-up opens to inform you that all records will be set as archived.

7

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 > Data > Delete Multiple Records**.

DELETE ?

You are about to delete **multiple** records at once. This action is definitive and cannot be reversed (Be sure you have a recent database backup).

from record id: to (included) from module: Select Module

Reset ID to first value (works only if the deleted records are the last ones in the module)

Note: Records with links to other records and defined storage will NOT be deleted.

Enter the first and last record numbers from the range to delete and choose the module containing those records.



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  to memorize all records you want to delete. Once done, go to **Tools > Manage memorized items** (for more information about this tool, refer to chapter 10-5)

On this screen you can check/confirm the records to delete. You then have to choose the “Delete from Database” option.



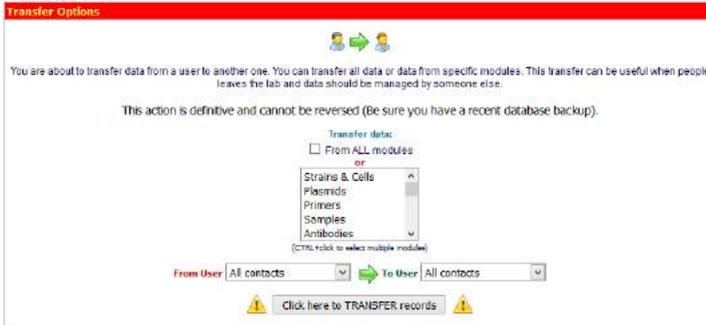
Multiple Data deletion has limitations. *The memorized records will only be deleted if the record has no storage assignments and no links to other records. You’ll have to remove the links and the storage previously to record deletion.*

7

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.**



7-6. Barcodes editing

7-6-1. Barcode types

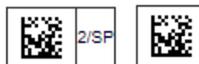
All data and records saved in LabCollector have a unique barcode. All of them can be edited and printed.

LabCollector edits two barcode types:

- **Linear or 1D barcodes:** 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.



- **DataMatrix or 2D barcodes:** 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.



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 you can:

<p>Click on </p> <ul style="list-style-type: none"> • A new window opens with different barcode printing choices.   <ul style="list-style-type: none"> • 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 "Open in a new window". 	<p>Click on </p> <p>A pop-up opens for the direct print mode application on EPL or JSCRIPT capable printers.</p> <p>To install it: Admin > Setup > Label network printers.</p> <p>A new window is opened.</p>  <p>Here you can add free text, add the text of a select field and choose your barcode and labels roll types (defined in Admin > Setup > Label network printers). You can print labels with no barcode. You can change the barcode size for a better output.</p>
--	--

NOTE: LabCollector offers the possibility to print several barcode labels at once. For more information, refer to [chapter 10-2](#).

7-7. Importing data

7-7-1. Import data of external files (batch)

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 [KB-141](#).

1. Open the Import interface: **Admin > Data > 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**. Then, go back to **Admin > Data > Import**.
4. Follow these instructions to create your import file:
 - The first line of the import file **MUST BE title tags that MATCH EXACTLY** either the field database name (real field name, database format) or the field legend (exact name that you give to the field). See [KB-118](#).
 - The order of the columns is not important.
 - Imported data **MUST CONTAIN** 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 **DON'T NEED TO USE ALL TITLE TAGS** but only those containing values you want to import.

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.

7

 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 [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 [KB-71](#)).

5. 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.

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.

6. Select the data file to upload through "Browse".
7. Choose the field separator used in your data file.
8. 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.
9. Click on *Proceed to Step 2*.
10. 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.
11. Submit the "Step 2" form by clicking on *Confirm* to validate the data.
12. Data import is completed.



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.

NOTE: 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 \(Rack Scanner\)](#).

NOTE: 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.

7-7-2. Import storage

Import storage via a CSV file is possible using the Import Storage function found in [Admin > Storage > Import Storage](#).

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).



1: Please select the format of data file:

INTERNAL ID <sep> Box ID or Box Name (must be unique) <sep> Comments <sep> Positions (as A1,A2,...) <line feed>
 or
 RECORD NAME (must be unique) <sep> Box ID or Box Name (must be unique) <sep> Comments <sep> Positions (as A1,A2,...) <line feed>
 or
 (2D) unique code <sep> Box ID or Box Name (must be unique)<sep> Comments <sep> Positions (as A1,A2,...) <line feed>

Additional columns in order after Positions: <sep> unique code <sep> Volume <sep> cap color

where <sep> is the separator character.
 [Optional unique code allows to import barcodes for each vial. Unique code ONLY works with single positions per row. Only 1 color per row.]

2: Data Module: Main Storage Secondary Storage

3: Select file to import:

Or Copy/Paste the lines from Excel to import below (tabulated):

4: Owner of storage: (only applies on secondary storage)

Use numeric positions (1,2,3...100) instead of coordinates (A1, A2..., J10)
 Force Box Name (this is useful if your box names are made of numbers only)
 Labels on line 1 (first line will be skipped)

Field Separator: Comma (,) (does not work for multiple positions) semicolon (;) tabulated Custom separator (must be unique)

5. Select format of the data to be imported.
6. Select the module and if it's to be added as Main or Secondary storage.
7. Add your file and choose its encoding or Copy and Paste lines from Excel.
8. 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.

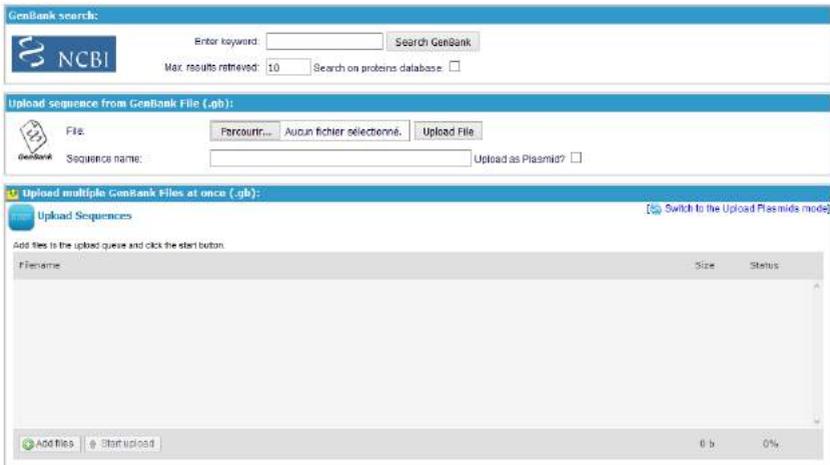
Note: Import storage in Reagent & Supplies module works ONLY with Secondary storage.

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**).

Click on **Import GenBank Data** at the top right. A new window opens:



- You can now search a sequence through GenBank and import it into your LabCollector database:

ENTERING AND MANAGING DATA

GenBank search:

Enter keyword: Search GenBank

Max. results retrieved: Search on proteins database:

<-- 10

Add to DB

Search results:

Total results: **78** Total retrieved: **10**

Durochoniella (Organism): 36 partial results
Durochoniella Fields: 28 partial results

	Short description:
<input type="checkbox"/>	gi 317431923 emb FN999897.1 J31743.1923 Uncultured bacterium partial 15S rRNA gene, clone TamE6 Size: 859
<input type="checkbox"/>	gi 317431922 emb FN999900.1 J31743.1922 Uncultured bacterium partial 15S rRNA gene, clone TamD6 Size: 872
<input type="checkbox"/>	gi 317431921 emb FN999895.1 J31743.1921 Uncultured bacterium partial 15S rRNA gene, clone TamD6 Size: 859
<input type="checkbox"/>	gi 317431920 emb FN999894.1 J31743.1920 Uncultured bacterium partial 15S rRNA gene, clone TamD4 Size: 849
<input type="checkbox"/>	gi 317431919 emb FN999893.1 J31743.1919 Uncultured bacterium partial 15S rRNA gene, clone TamE5 Size: 879

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: just select the appropriate file (.gb), give a name to the sequence and click on **Upload File**. Don't forget to tick the box if you want to upload plasmid.
- Import multiple GenBank files at once: click on **Add file** to select the appropriate file. Repeat this step as many times as you need and then click on **Start Upload** to upload files. Don't forget to "Switch to the Upload Plasmids" mode to import data in **Plasmid** module.

7

Upload multiple GenBank Files at once (gb)

Upload sequences Switch to the Upload Plasmids mode

Add files to the upload queue and click the start button.

Filename	Size	Status
AT7984_Prot.gb	15 KB	0%
AT7981_DNA.gb	23 KB	0%
AT7981_mRNA.gb	12 KB	0%

This application can be very useful if you need to import large amounts of data from GenBank files.

7-8. Mass data update

7-8-1. Mass price updater

LabCollector includes an administrative tool for updating the price field of several records in the Reagents & Supplies module.

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 > Data > Mass price updater.**
3. Select your file to import, field separator and record references.
4. **“Import & Update”**



5. Check your data import and validate.

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 includes an administrative tool for updating one or more fields from several records at once on any module.

It works with 3 modes:

- **Internal ID** (records identified by LabCollector numbering)
- **Record Name** (records matching the name. It must be unique)
- **2D barcode** (records identified by tube barcode numbering)

Step 1: Read file to import

Please select the format of data file:

- INTERNAL 2D<sep>FIELD TO UPDATE 1 {<sep>FIELD TO UPDATE ...}<line feed>
- or
- RECORD NAME<sep>FIELD TO UPDATE 1 {<sep>FIELD TO UPDATE ...}<line feed>
- or for samples only
- 2D unique code <sep>FIELD TO UPDATE 1 {<sep>FIELD TO UPDATE ...}<line feed>

where <sep> is the separator character, Field 2,3,4 are optional.

1: Number of fields to update: (restart)

2: Module:

1. Choose records on a module and generate a full or filtered list of data by exporting to excel (from module page).
2. **Admin > Data > Mass record updater**
3. Select data file format, module, field 1, other fields (optional), select file to import and field separator.



Select ISO 8859 or UTF8 for special character support.

4. "Import and Update".

Step 2: Confirm parent updated values to import

Record ID	Record name	OLD value 1	NEW Value1	OLD value 2	NEW Value 2
1	rMad	2010-12-14	2010-12-09		
2	E. Coli 6 (PDR)	0000-00-00	2010-12-11		
14	C300	2010-12-09	2010-12-01		
15	H8311	2010-12-01	2010-12-12		
16	L3012	2010-12-12	2010-12-13		

5. Check your data import and validate.

Data file must be a text file with columns delimited by a separator character that can be a comma, semicolon, TAB or any other.

Suggestions: use this tool to update/import storage, analyses results, corrections ...

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.

Access this tool from **Admin > Storage > Batch Lots Inventory**

Step 1: Read and import data

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.

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Step 2: Choose between 3 options: quantity replacement, quantity deduction or add quantity.

Note: 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.

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.

7-9-1. Quick destock

Quick stock movement can also be done using the Reagents & Supplies Quick Destock button  :

1. Enter the product or the lot barcode.
2. Enter the quantity.

3. Choose between *quantity replacement*, *quantity deduction* and *quantity add*.
4. You can also choose *Derive* to derive a unit. Works only on lot with default unit and quantity superior to one.
5. Process.

QUICK DESTOCK

Barcode: 26
 Article: EDTA, ultrapure (ID: 8)
 In stock Quantity: 5.00

2: Qty

3:

- Quantity replacement
- Quantity deduction (original - new)
- Quantity add (original + new)
- Derive**

4: User
 (responsible for the request)

7-9-2. Internal consumptions

Internal consumptions management with rebill option on budget accounts can be made with the Users Reagents & Supplies Consumptions tool.

Go to **Tools > Users R&S Consumptions**

To use this tool, reagents and supplies price and packaging have to be configured as well as budgets accounts ([see chapter 9-1-1](#)).

Each product destock is registered (user ± group, quantity, price) and can be rebilled.

Item	Date	Qty	U. Price	Subtotal	User	Group	Paid on	Paid to	Date
✗ SDS	2014-07-22	1.00	30.00	30.00	Emilie	GROUP2			
✗ Potassium acetate	2014-07-25	1.00	2.00	2.00	Emilie	GROUP2	budget A		
✗ Sodium acetate	2014-07-25	1.00	5.00	5.00	Emilie	GROUP2	budget A		
✗ Potassium acetate	2014-07-28	1.00	2.00	2.00	Emilie	GROUP2	budget A		
✗ Sodium acetate	2014-07-28	1.00	5.00	5.00	Emilie	GROUP2	budget A		
Grand Total:				46.00					

Note 1: Charges cannot be undone. Only unprocessed lines will be updated.
 Note 2: If budget's accounts have money associated, balances will be adjusted based on consumption costs. Payer budgets (paid on) will be reduced from consumption costs. Recredit budgets (paid to) will be credited back of consumption costs.

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.

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.

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 > Data > 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.

The Backup Retention policy section controls how many previous backups you want to keep - from 0 to 7 when running manual backups.



Database Backup

To backup the database, you just need to click the following button. This will generate a SQL file on the server that you can download and keep on a safe media.

Do a new backup?

Skip ELN tables

Backup files too (Unix/Linux only)
(documents, maps,files)

Schedule a new backup?

Task Name	Task Frequency	Task Time	Skip ELN Tables	Backup Files Too
Daily_backup	DAILY	0 : 00	No	No

Task Name	Task Frequency	Task Time
<input type="text"/>	Daily	00 : 00

Skip ELN tables

Backup files too (Unix/Linux only)
(documents, maps,files)

Backup retention policy

Remove previous SQL files when number is higher to

1

Download backup

labcollector_ .sql (235,329.24 kb)



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.

Task Name	Task Frequency	Task Time
	Daily	00:00

Skip ELN tables
 Backup files too (Unix/Linux only!) (documents, maps, files)

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 > Automatic backups**.



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”



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).*

8- SEARCHING DATA

One essential goal of LabCollector after storing data is to easily find and retrieve it when and where you need it. You can find data from the LabCollector home page and in each module using keywords search or from the barcode search field. You can also find data through the PDA interface on pocket PC devices.

8-1. Keyword cross-search between modules

On the LabCollector home page, you can access information stored in the database with a keyword search.

The screenshot shows the LabCollector web interface. At the top, there is a navigation bar with links for HOME, MODULES & ADD-ONS, TOOLS, ADMIN, HELP, and ALERTS (with a red notification icon). A search bar is visible with the text 'BS' entered. Below the search bar, the results are displayed in two sections: 'Strains : 2 results found' and 'Samples : 11 results found'. The 'Strains' section lists two items: 'PI_5P52_12' and 'PI_5P52_14'. The 'Samples' section lists eleven items, each with a unique ID and the text 'BS' followed by a number (e.g., '40 BS12', '41 BS1', '42 BS2', '43 BS3', '44 BS4', '45 BS23'). Each item has a small blue icon to its left and a larger blue arrow icon to its right.

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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 specificities of data stored.

The screenshot shows the search interface for the 'Strains & Cells' module. It features a search bar with a magnifying glass icon and a 'Search by:' dropdown menu set to 'Keyword'. Below the search bar, there are several filters: 'Operator: AND', 'Status: Active', and 'Sort results by: 3d'. There is also a 'Show all fields' button and a 'Strict search' checkbox. At the bottom, there is a link to '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.

You can expand one or more items by clicking on the magnifier icon () next to each item name. You can also expand all results on the page on the small magnifier icon () on top of the results page (“Show/Hide all results on page”).

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.).

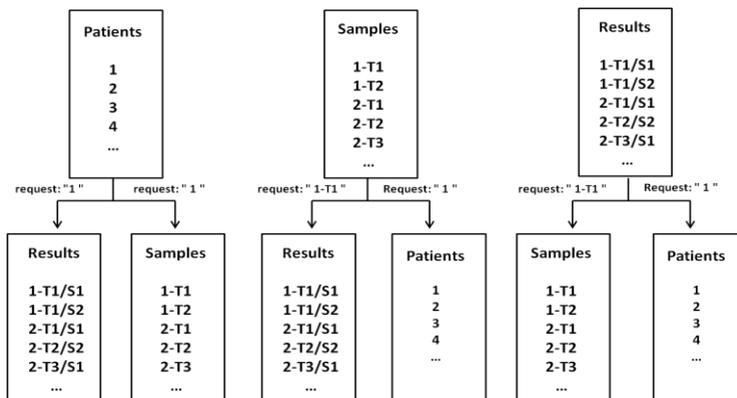
 **Super-admin can change the number of results displayed per page. Go to Admin > Setup > General setting, logo, modules names and choose the number of results you want to see per page.**

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 () , select the module in which you want to search and the prefix separator you used to list your data.

This function can be very practical to create and manage biobanking but needs a special data organization using prefix separator.

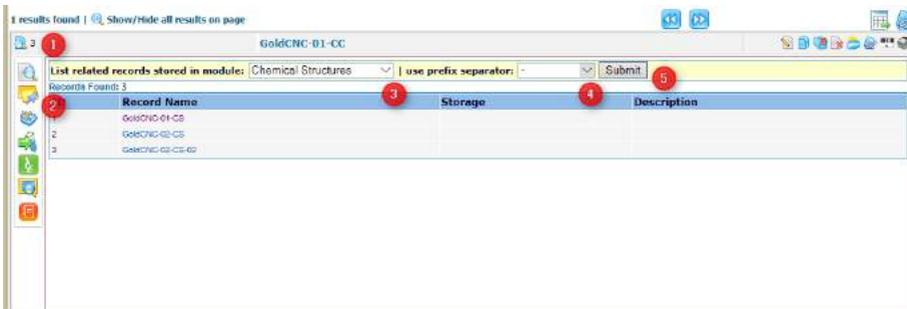
Here is an example:



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. 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.

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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).

Primers Matching Sequence **ncs100aa**
Hit The "Next" Button Of Your Primer To Get Back To The Sequence List

Primer #	Primer Name	Hybridization Positions	Map View
17	page 1	4	
32	Randomly Primer	3, 162	
34	NA2	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34	
213	lab	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34	
214	lab	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34	

If you click on this icon you can access a graphical display of the localizations on the sequence.

Results
Primer positions on your template sequence:

Start	End	Primer motif
8	25	tcgatgatctagcag

Sequence Size: 35 nt
Direct Orientation

No hybridization found in Reversed orientation.

Here is your formatted sequence output:

```

1:GCTCGAGA tcgatgatctagcagTCGTGACGTAC-35
   CGAGCTCTAGCTAGCTAGCATCTTCAGACTGCATG

```

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 the exception of some add-on modules).

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.

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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 .

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 [export model](#), you can select it from the list.



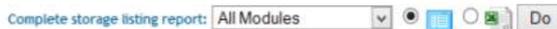
Only the selected fields from the search results will be exported (to export all data, perform a blank search and add all fields).

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 > Storage Browser**.



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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.



The content of individual storage locations may be printed as well. To do this, use the storage browser to navigate to the desired box/vistotube/plate/shelf part. Click the icon  and then select the print button.



Pos.	Name	Vol.	Stor. comments	Date created
A1	(mBRS10000100_C01)	1mL		
A2	(mBRS10000100_C01)	1mL		

8-7-3. Stock report

Go to **Admin > Storage > 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  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.

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.



To link records, you can use the linking option **Add Link**.

8-9-2. Custom field links

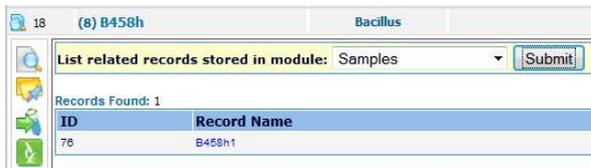
You have to first create appropriate custom fields through **Admin > Data > Custom Fields**. Custom fields can be set to autocomplete or link to other record custom fields.

To visualize these links in the Treeview just click on  (custom links) or  (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 derivate name, LabCollector creates an automatic link.

To see this link, click on . See [chapter 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 . A form will open to create a record in the samples module derived from the record you selected.

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.

9- ORDER LIST MANAGEMENT

9-1. Ordering articles

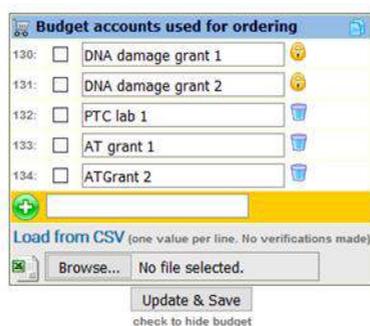
The **Reagents & Supplies** and **Primers** modules are linked to an order management system ([read also alerts part](#)). This tool can simply be used to notify that articles need to be purchased or it can be a real order management tool.

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.

Go to: **Admin > Preferences > Reagents and Supplies.**



This 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 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 below) and the second is approved by the manager of

the budget (see section 9-1-2 point 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.

Go to: **Admin > Preferences > Reagents and Supplies.**

Order requests approval

Approval is mandatory : ON OFF

If yes, approve only on values >

Update & Save

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 > Budgets Follow-up tab**



Before using this Budgets Follow-up tool, you need to configure it:

1. Add a new budget period by clicking on the corresponding icon  **Add New Budget Period**
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.

Add New Budget Period

Budget:

Start Date:

End Date:

Amount Allocated:

Manager:

Approval threshold: (optional: if an amount is specified, an item with a value higher than this will need to be approved by the manager)

Group:

+ Save

It's also possible to import a list of budget periods via CSV file via the Import Budgets button.

 Import Budgets

 **Import Budgets**

Import File No file selected.

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, Manager, Group and Approval Threshold are optional and can be empty
 Budget, Manager and Group can be imported either by ID or Name (budget name, manager name, group name)

+ Import

- Your created budget period is now available on the main screen. You can retrieve information that you enter in the form.

Budget Follow-up   

By Budget Ref: With Date starts: to With End starts: to Managers: Group: Search

Budget Periods Overview

Budget	Start Date	End Date	Amount Allocated	Amount Remaining	Manager	Group
Budget 1	2019-03-31	2020-02-28	10,000.00	10,000.00	John Smith (200)	
Grand Total:			10,000.00	10,000.00		

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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.

Please note: to enter a new value, double click on the existing value and save.

Monthly Budget Manager	
Date	Budget
01/2012	3000.00
02/2012	3000.00
03/2012	3000.00
04/2012	3000.00
05/2012	3000.00
06/2012	3000.00
07/2012	3000.00
08/2012	3000.00
09/2012	3000.00
10/2012	3000.00
Monthly Sum	30000.00
Defined Budget	30000
Dif	0

[Save!](#)

[Close window](#)



This tool displays the budget follow-up for this period with what was spent.

Please note: to see the spending on a budget, you need to process one or more orders in the Purchase Orders Management.

Budget Ref	Start Date	End Date	Initial Amount	Amount Remaining	Manager	Group					
Budget 07209	2012-01-01	2012-12-31	20,000.00	-2,613.90	Pierre, J						
Jan 2012	Feb 2012	Mar 2012	Apr 2012	May 2012	Jun 2012	Jul 2012	Aug 2012	Sep 2012	Oct 2012	Nov 2012	Dec 2012
20,000.00	19,486.00	-2,320.00									
1,666.67	332.00	1,666.67	0.00	1,666.67	21,991.00	1,666.67	0.00	1,666.67	0.00	1,666.67	0.00



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:

2	Methanol USP		Solvents	
3	Chlorobenzene	ACS reagent grade	Solvents	

If this icon appears 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.

Put item in the order list. If this icon appears without 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 **Admin > Preferences > Reagents & Supplies** ([more information about budget definition](#)).

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.

Add to Shopping Cart Options

Eau minérale

Enter quantity:

Urgency: Urgent Normal

Comments:

Suggested Budget:

Budget Details	
Budget name	AG201203
Monthly budget (current)	10,000.00
Monthly budget remaining (current)	8,740.00
Total budget	120,000.00
Total budget remaining	(118,740.00)
End budgetary period	2012-12-31

Once validated, the ordering request is entered in the order list.

Clicking on the  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.



This icon lists the lots as from the Reagents & Supplies module directly into the parent module.



This icon gives access to ordering and reagent information taken from the Reagents & Supplies module directly into the parent record.

ORDER LIST MANAGEMENT AND ALERTS

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).

Reagent Association

Associate To Reagents & Supplies Module Record For Ordering Purposes

Associate To New Reagent & Supply Record From Category Select Reagent Category (Automatic Record Creation)

Associate To Existing Reagent & Supply (Reagent ID)

SAVE

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.

Go to **Tools > Purchase Order Management**.

Current Order List | Generate PO Form | PO as Seller | Post Orders | Vendor Work | Budget Follow up | Manage PO Transactions

Current order list management (designs) | Available supplies and products

Expand filter options

Order	Category	Name	Qty (Unit)	Price	Seller (Org ID)	Item ID	Item Name	App. for	Order by
2017-02-18	12 181741-1				Sigma	393405-0	ADON		
2017-02-18	12 181741-2				Sigma	393405-0	ADON		
2017-02-18	12 181741-3				Sigma	393405-0	ADON		
2017-02-18	12 181741-4				Sigma	393405-0	ADON		
2017-02-18	12 181741-5				Sigma	393405-0	ADON		
2017-02-18	12 181741-6				Sigma	393405-0	ADON		
2017-02-18	12 181741-7				Sigma	393405-0	ADON		
2017-02-18	12 181741-8				Sigma	393405-0	ADON		
2017-02-18	12 181741-9				Sigma	393405-0	ADON		
2017-02-18	12 181741-10				Sigma	393405-0	ADON		
2017-02-18	12 181741-11				Sigma	393405-0	ADON		
2017-02-18	12 181741-12				Sigma	393405-0	ADON		
2017-02-18	12 181741-13				Sigma	393405-0	ADON		
2017-02-18	12 181741-14				Sigma	393405-0	ADON		
2017-02-18	12 181741-15				Sigma	393405-0	ADON		
2017-02-18	12 181741-16				Sigma	393405-0	ADON		
2017-02-18	12 181741-17				Sigma	393405-0	ADON		
2017-02-18	12 181741-18				Sigma	393405-0	ADON		
2017-02-18	12 181741-19				Sigma	393405-0	ADON		
2017-02-18	12 181741-20				Sigma	393405-0	ADON		

Generate PO Form | Post Orders | Vendor Work | Budget Follow up | Manage PO Transactions

Primary Synthesis Orders

Order	Category	Name	Qty (Unit)	Price	Seller (Org ID)	Item ID	Item Name	App. for	Order by
2017-02-18	12 181741-1				Sigma	393405-0	ADON		

Generate PO Form | Post Orders

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 [module](#) data.

 **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

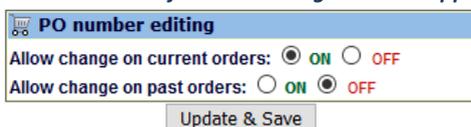
1. Once items have been added to the order list they can be approved or cancelled. Approval of an item depends on the total cost of the item (see sections 9-1-1 and 9-1-2). Once approved the requester will be notified by email. Add items that you want to order by clicking on  PO: and write the internal PO number or use  to create one. PO number assignment remains optional.



 **All items sharing the same PO number are gathered on the same PO form.**

PO numbers

Go to: **Admin > Preferences > Reagents and Supplies**



 **PO numbers cannot be reused after a PO has already been formatted**

1. Each ordered item can be assigned to a budget reference. Budget assignment can be made mandatory in **Preferences > R & S > Associate budget to order.**

 **You can manage budget accounts through Preferences > R & S > Budget.**

Budget accounts used for ordering	
A02475	
01122	
SAP	



Budget assignment can be made mandatory in Preferences > R & S > Associate budget to order.

Associate budget to order

Force budget selection on orders: ON OFF

2. If you have a discount on your product purchase, you can add it by filling Discount: % icon.
3. When your purchase order is done click on *“Process selected change”*.

Reagents and Supplies:

void	Cancel	Order
<input type="radio"/>	<input type="radio"/>	2019-02-18 PO: 3 / Budget: /
<input type="radio"/>	<input type="radio"/>	2019-02-18 PO: 5 / Budget: budget 1
<input type="radio"/>	<input type="radio"/>	2019-02-18 PO: 5 / Budget: budget 1
<input type="radio"/>	<input type="radio"/>	2019-02-18 PO: 6 / Budget:
<input type="radio"/>	<input type="radio"/>	2019-02-18 PO: 7 / Budget: /

PO: budget 1 Discount: %



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 *“Process selected changes”*, a window opens:

ORDER LIST MANAGEMENT AND ALERTS



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



Before using this service, you have to define your account settings through “Admin > Preferences > Reagents and Supplies” (see chapter 4-2).

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.

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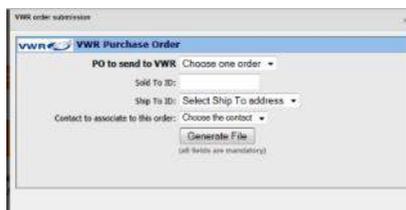
In this menu, there are 4 buttons that you can use to order directly:

Sigma Aldrich:

Complete this form and click on *Generate File and Send Order*. Your order will be sent directly to Sigma Aldrich.

VWR:

ORDER LIST MANAGEMENT AND ALERTS

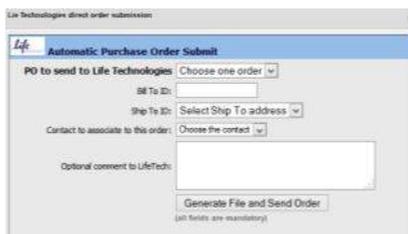


The screenshot shows a web form titled "VWR order submission" with a sub-header "VWR Purchase Order". The form contains the following fields and controls:

- "PO to send to VWR" with a dropdown menu labeled "Choose one order".
- "Bill To ID:" with a text input field.
- "Ship To ID:" with a dropdown menu labeled "Select Ship To address".
- "Contact to associate to this order:" with a dropdown menu labeled "Choose the contact".
- A "Generate File" button.
- A note at the bottom: "(all fields are mandatory)".

Complete this form and click on *Generate File*. Your order will be sent directly to VWR.

Life Technologies:



The screenshot shows a web form titled "Life Technologies direct order submission" with a sub-header "Automatic Purchase Order Submit". The form contains the following fields and controls:

- "PO to send to Life Technologies" with a dropdown menu labeled "Choose one order".
- "Bill To ID:" with a text input field.
- "Ship To ID:" with a dropdown menu labeled "Select Ship To address".
- "Contact to associate to this order:" with a dropdown menu labeled "Choose the contact".
- "Optional comment to LifeTech:" with a large text area.
- A "Generate File and Send Order" button.
- A note at the bottom: "(all fields are mandatory)".

Complete this form and click on *Generate File and Send Order*. Your order will be sent directly to Sigma Aldrich.

Qiagen:



The screenshot shows a web form titled "Qiagen direct order submission" with a sub-header "QIAGEN Purchase Order [France/Benelux]". The form contains the following fields and controls:

- "PO to send:" with a dropdown menu labeled "Choose one order".
- "Billing info:" with a dropdown menu labeled "Select Bill To address".
- "Shipping info:" with a dropdown menu labeled "Select Ship To address".
- "Contact to associate this orde with:" with a dropdown menu labeled "Choose the contact".
- "Optional comment to QIAGEN:" with a large text area.
- A "Generate File" button.
- A note at the bottom: "(all fields are mandatory)".
- A green "DEMO MODE!!" watermark is visible on the form.

Complete this form and click on *Generate File and Send Order*. Your order will be sent directly to Qiagen.

Storage Accessories:

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*

In order to generate a dedicated PO that follows your company or institute guidelines, LabCollector can use templates. They can be HTML files or Excel files.

Go to: [Tools > Purchase Orders Management > Manage PO Templates](#)

HTML templates:

Templates are coded in normal HTML language plus specific LabCollector pointers/tags for the dynamic information. Just place these pointers anywhere in the template where you need the corresponding information to be placed.

The table below lists pointers recognized by LabCollector:

You can also activate automatic email sending to sellers, with the PO PDF file as an attachment under the tab **PO to Sellers**.

TAG	Replacement action in template
##date##	Inserts date
##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 reference, quantity and unit price)
##itemsandrequesters##	Inserts ordered items list (table with name, seller 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)
##po_number##	Inserts PO number

ORDER LIST MANAGEMENT AND ALERTS

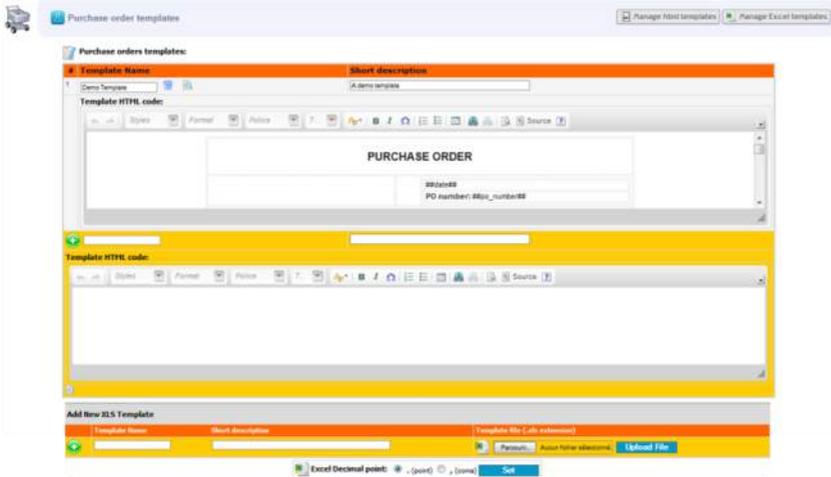
##po_number_barcode##	Inserts PO number as barcode
##order_by##	Inserts name, email and tel of the person who ordered (place it on each item line)*
##comment##	Inserts comment
##budget##	Budget account reference (global)
##budget_line##	Budget account reference (for each item line)*
##chem_name##	Item name *
##chem_ref##	Item reference *
##qty##	Item quantity *
##item_pack_size##	Item packaging size*
##chem_seller_price##	Item unit price *
##discount##	Price discount *
##brand_name##	Brand name*
##seller_company##	Seller company name
##seller_address##	Complete seller mailing address (Name, company, street, post code, city, country)
##seller_email##	Seller email
##seller_tel##	Seller telephone number
##seller_fax##	Seller fax number

* Applies only to Excel templates.

Excel templates:

 ***Place tags as cell names in Excel templates. Data needs to be inserted (removed) like: ##seller_tel## needs to be written as 'seller_tel' for example.***

ORDER LIST MANAGEMENT AND ALERTS



To add a new excel PO templates, fill in “Template name”, “Short description”, browse and upload your file.



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.



Use this icon to delete the template.



Use this icon to download and see your template.

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You can also activate automatic email sending to sellers, with a PO Excel file as an attachment under the tab **PO to Sellers**.



Sent to seller: visual indication

Email to seller: enabled if you tick the box “Activate email sent to sellers.” under **Manage PO Templates**. Send your PO automatically (in PDF or excel format) to the seller.

CC To Requester: Send the same email to the requester

CC To Orderer: Send the same email to the person who did the order

Custom CC: any email addresses

9-3-4. Generate PO forms

1. Do your order following 9-1-3 paragraph.
2. Click on  .

Current Purchase Orders to format:

PO number	Supplier	Budget(s)	Format PO with Template	
6	Oligen		Choose template to apply <input type="text"/>	Extra comment: <input type="text"/>
 The following PO(s) have a problem and cannot be processed. Please fix them in the order list. 5				
<input type="checkbox"/> Apply same template to all unformatted PO <input type="text"/> Choose template to apply <input type="text"/>				
<input checked="" type="radio"/> ALL <input type="checkbox"/> Except manually selected PO above				
<input type="button" value="Process Selected Changes"/> <input type="button" value="Reset"/>				

NOTE: This 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.

 **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 .

Article	Quantité	Description	% de remise	Prix unitaire H.T.	Prix total H.T.
4567	1	KCl (Sigma Aldrich)	0	0	0
1234556	2	DMSO (Sigma Aldrich)	10	90	180
67854	1	NaCl (TEBU)	0	50	50
					0
					0
					0
					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.



Lots can only be edited/removed following the rules chosen in Reagents & Supplies preferences.



Click on this icon 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.



Lots must have original barcodes entered for a search on the original barcode to work.

The screenshot shows a web-based form titled "Add Lot". It contains several input fields: "Lot Number/Barcode" with a dropdown menu, "Expiration Date" with a date picker, "Comments" with a text area, "Quantity" with a numeric input and a unit dropdown (set to "ml"), and "Storage location" with a dropdown menu. A red arrow points to a checkbox labeled "Keep on hold (quantity)". Below the form is an "Add New Lot" button and a small note: "Note that for data integrity reasons, lots cannot be created twice with the address."

Lot management is linked to the alerts system. See the chapter on [Alerts use](#).

For additional information, please see the [KB-107](#) for lot management and [KB-172](#) for lot disposal.

9-3-6. Manage Invoices

In the Purchase Order Manager, you can manage invoices through the “Invoice Vault” tool: [Invoices Vault](#). This tool allows you to store invoice copies, notify real value paid, etc.

To save an invoice, you need to:

1. Click on the “Add invoice” button.

The screenshot shows a form titled "Add invoice details". It has the following fields: "PO number" with a dropdown menu and a text input (note: "may be partial. Autocomplete field"); "Seller Invoice number" with a text input; "Invoice Date" with a date picker; "Real Invoice value" with a text input (note: "will replace order list amounts in budget follow-up"); and "Invoice scan" with a file upload button labeled "Parcourir..." and the text "Aucun fichier sélectionné". A "Save/Update" button is located at the bottom of the form.

2. Fill out the form with your information: PO number, Seller invoice number, Invoice Date, Real invoice value (that will replace order lists amount [in budget follow-up tool](#)) 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 follow-up 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

Primer Synthesis Orders:

void	Cancel	Order	Delivery	Primer Name	Sequence (5'-3')	Qty	Req. date	Req. by	Appr. by	Order. by
				(1) p53 qPCR primer		1	2015-03-22	admin		

NOTE 1: Only check the correct options on items to be processed, otherwise leave unchecked or check "void" option.
 NOTE 2: You can only cancel items that have not been ordered. To process a delivery, you need to first process an order.
 NOTE 3: If delivery is checked and processed, you will be prompted to validate the new lot entries on the corresponding reagent records.

10- TOOLS

10-1. Storage Browser

For detailed information see [chapter 6](#).

10-2. Barcode Label Series

LabCollector offers the possibility to print several barcode labels at once.

With the Memorize Records functionality, you can search for records in a module, click on the memorized items icon and go to **Tools > 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.



Generic printing

Choose your numbering option (continue or discontinue list or generic series), the type of barcode and some additional parameters.

You can also add name and date, the text of a selected record field or free text to labels, choose the number of copies, choose whether or not to include copy sub-numbering and choose the label format (roll types need to be defined before through [Admin > Setup > Label network printers](#)).

If you define a label size that includes a second label (2 columns), the second label will automatically be a 2D data matrix barcode. This is useful for example for a round label to put on top of tubes.

Example of double label:



 **Barcode symbol is fixed by the printer preferences in [Admin > Setup > Network Printers](#).**

- 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**.

 **LabCollector only supports this model at the time of writing this manual.**

More information on Dymo printing is available in [KB-76](#) and [KB-152](#) to create template.

10-3. Purchase order management

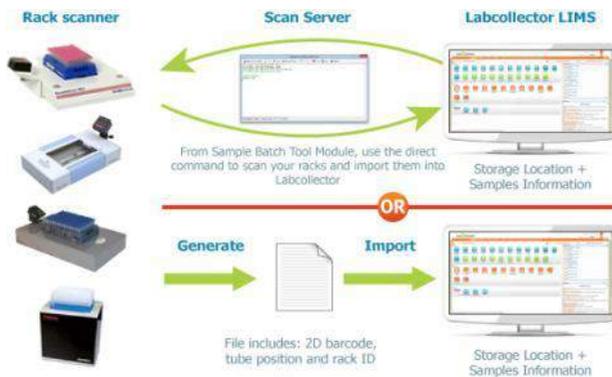
For detailed information see [chapter 9](#).

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



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.



This tool is compatible with many suppliers of precoded tubes and scanners including Micronic, BioMicroLab, FluidX, Thermo, Ziath, Biotillion...

1. **Home > Sample batch tools**
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.

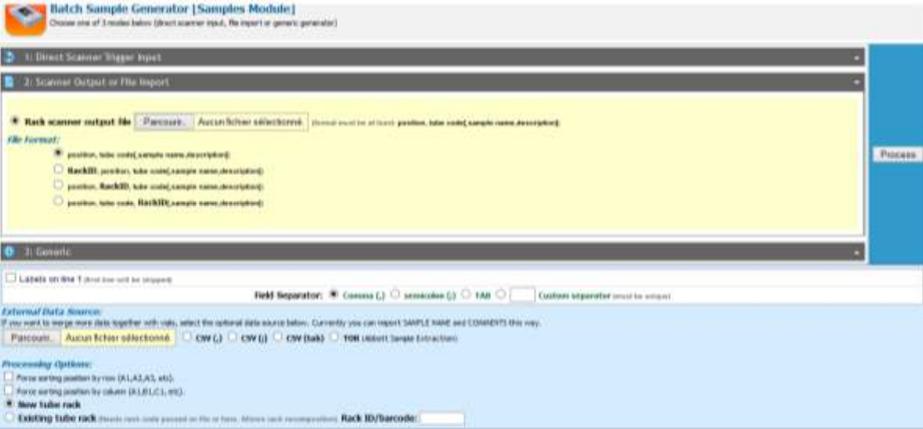
When using direct trigger you will view the scanner output directly.



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 “2.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.



This tool is compatible with many suppliers of precoded tubes and scanners including Micronic, BioMicroLab, FluidX, Thermo, Ziath, Biotillion...

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.

1: Direct Scanner Trigger input
2: Scanner Output or File Import
3: Generic

Generic rack/box grid with no codes and no scanning with rows x columns (wells)

As storage box As microplate (not editable)

Automatic naming of records:
 Assign automatic names to records

Add prefix:
Add suffix with TUBE POS (A1,A2,...) TUBE COUNT (1,2,...)

Processing Options:
 Save sorting position by row (A1,A2,A3,...)
 Save sorting position by column (A1,B1,C1,...)
 Labels on line 1 (first line will be skipped)

Field Separator: Comma (,) semicolon (;) TAB Custom separator (must be unique)

External Data Source:
If you want to add & merge more data together with scanned vials, select the optional data source below.
 CSV (,) CSV (|) CSV (tab) for SAMPLE NAME and COMMENTS (match by line order)
 CSV header (,) CSV header (|) CSV header (tab) for fields matched by header name (match by 2D code on first column)
 TOR (Abbott Sample Extraction) TRITURUS (Grifols Immunoassay System)

Browse... No file selected.

Rack origin & template:
 Based on template (Choose a template to apply) Name vs T. NAME Rack-T. NAME Rack-T. NAME-Tube ID
 New tube rack / Existing with direct barcodes read
Existing tube rack (rack name / manual rack read)
Rack ID/barcode:
 Replicate as secondary storage from an existing rack
(will be saved as secondary storage of existing samples.
Tube positions must perfectly match).
Derive to new record from an existing rack
(will be saved as new storage with new samples linked to parent existing samples.
Tube positions must perfectly match).

Select master tube rack/box:
SELECT STORAGE INGD00

6: Process

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

Batch Sample Generator [Samples Module]

4: WARNING: The rack/box was not found in database. Check ID and start again OR create a new rack/box storage below. (900011017)

Tube rack name/barcode: * 9000011017 (blue name. You can read the rack/box barcode via this field directly)

Storage location: * Bayan rack Bridge 2 (BPC)

Frontier Drawer: * Position in drawer:

Tube rack's general description:

Owner: * Triage Common box

Volume taken for all:
Cap color for the set:
Sample type for all:

Grid Position	Tube ID	Sample Name	Vol.	Project	Sample description and amount	Works flow links to all	Sample Type
A1	DM0_30702	<input type="text" value=""/>	<input type="text" value="ml"/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="checkbox"/>	Select the type
B1	DM0_30703	<input type="text" value=""/>	<input type="text" value="ml"/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="checkbox"/>	Select the type
C1	DM0_30704	<input type="text" value=""/>	<input type="text" value="ml"/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="checkbox"/>	Select the type
D1	DM0_30704	<input type="text" value=""/>	<input type="text" value="ml"/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="checkbox"/>	Select the type
E1	DM0_30712	<input type="text" value=""/>	<input type="text" value="ml"/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="checkbox"/>	Select the type

10

* Red asterisks represent fields that must be filled.

5. Give a rack name / box name / plate name or ID.
6. Choose a storage location for the rack / tray / plate.
7. Identify the drawer where the rack is stored.
8. Define box owner. Check *“Common box”* if you want to share your data.
9. A cap insert color could be chosen (see chapter 6-1-3).

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.



10. Go to the bottom of the page to validate the data import.



11. *“Click to submit form”* to finish.
12. The rack/box layout is displayed.

	1	2	3	4	5	6	7	8	9	10	11	12
A1	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
A2	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
B1	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
B2	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
C1	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
C2	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
D1	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
D2	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
E1	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
E2	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
F1	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
F2	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
G1	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
G2	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
H1	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
H2	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
I1	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
I2	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000

13. Click on the name of a sample to display details.

 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 taken to all: mL

Cap color for the set: no color

Sample type for all: Select the type

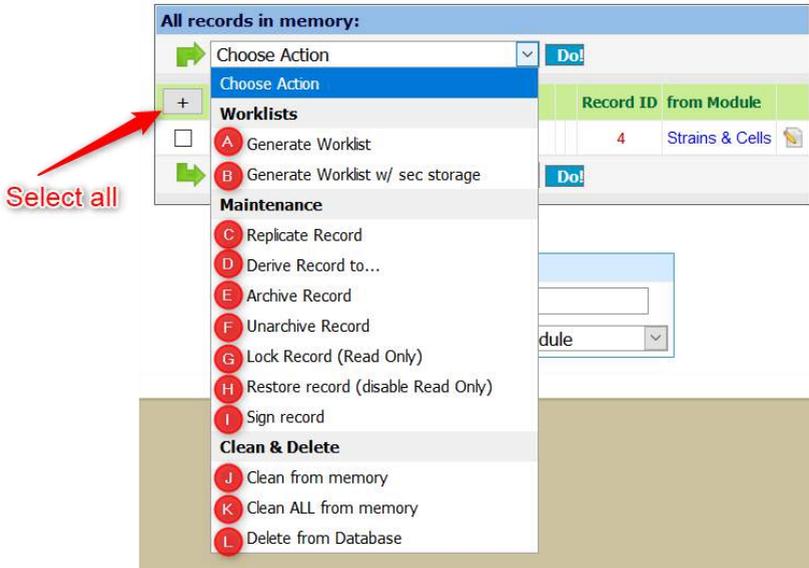
10-5. Manage memorized items

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. **Generate worklist**
- b. **Generate worklist with secondary 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.

ID	Title	Uses	Freezer	Rack/Canister	Position/Goblet	Box/Viscube	Positions in box	Vol.	from Module
22	BIC02	0	Congel_1	Misc		box 1 well			Samples
23	BIC09	1	Freezer immuno	100mm	1	box1	B1B2B3,C1C2C3	1 mL	Samples
34	BIC05	1	-80 Clone Bank	BIOCOPE 2		Box4	H10-H11		Samples
38	BIC03	2					A5		Samples
36	BIC10	2							Samples
37	BIC04	1							Samples

NB: Uses counter shows nr of presences in lists. For vials it also shows the uses of the main record.
 NB: Remove ALL from storage works with MAIN storage and unique aliquot/vials only



Worklist									
ID	Title	Uses	Freezer	Rack/Canister	Position/Goblet	Box/Vialtube	Positions in box	Vol.	from Module
32	BIO2	0	Congel_1	Misc		box 1 well			Samples
33	BIO9	1	Freezer immuno	100mm	1	box 1	B1,B2,B3,C1,C2,C3	1 mL	Samples
33	(BIO9)	-	Automatic sample freezer	DNA hydrothermal		BIO-DNA	A6,A6		Samples
34	BIO5	1	-80 Clone Bank	BIOCOPE 2		Box4	H10,H11		Samples
35	BIO3	2					A5		Samples
35	(BIO3)	-	Automatic sample freezer	DNA hydrothermal		microplate DNA	A1,A2,A3,A4		Samples
35	(BIO3)	-					A7		Samples
35	(BIO3)	-					A8		Samples
35	(BIO3)	-					A8		Samples
35	(BIO3)	-					A10		Samples
35	(BIO3)	-					A11		Samples
35	(BIO3)	-					A12		Samples
36	BIO10	2							Samples
37	BIO4	1							Samples

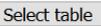
Secondary storage

With this worklist, you can:

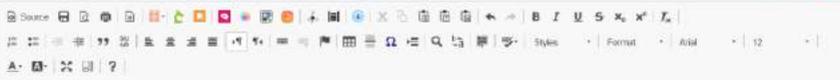
- Add a link (normal link on the bottom of each record) in batch. For example, link a set of primers to a DNA sample. Please refer to chapter [7-5-1](#)
- Take out volume by clicking on the corresponding button (for more information, please refer to chapter [7-4-3](#)).

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.

Take Out Volume [batch]			
Sample	Purpose	Date / Time	Volume
BS25		2019-04-02 / 13.44	0.5 mL
BS15		2019-04-02 / 13.44	0.5 mL
BS24		2019-04-02 / 13.44	0.5 mL

Content: Print Close

Source 

Sample	Purpose	Date / Time	Volume
BS25		2019-04-02 / 13.44	0.5 mL
BS15		2019-04-02 / 13.44	0.5 mL
BS24		2019-04-02 / 13.44	0.5 mL

- For samples worklist, add a process to all data by clicking on the corresponding button (for more information, please refer to chapter [4-5-1](#)).
- 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 chapter [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.

Saved lists are available through [Tools > Lists and series](#). See chapter [below](#).

- c. **Replicate record**
- d. **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. If you derive in Samples module, you also have to select the sample type.

- e. **Archive record directly (Careful, there is no step of validation).**
- f. **Unarchive record**
- g. **Lock record. Terminate record Edition**
- h. **Restore record**
- i. **Sign record**

It is possible to perform all these actions in batch in any module.

- j. **Clean from memory**
- k. **Clean ALL from memory**

If you need to work with a different list, clean the records (check the correct box(es)) or all records from the memory.

I. 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 the [KB-67](#).

An edit icon  appears on worklists and in Manage memorized items page allowing the modification of records one by one.

 Non-admin user 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).



10-7. Manage Genotype tags

Manage Genotype Tags (Edit, Delete...)

Current Tags

Update List

δ(ara-leu)	🔍 ✎ ✖
δ(mrr-hsdRms-mcrbc)	🔍 ✎ ✖
δlacx74	🔍 ✎ ✖
φ80laczδm15	🔍 ✎ ✖
(stmr)	🔍 ✎ ✖
G5	🔍 ✎ ✖
AG++	🔍 ✎ ✖
arad139	🔍 ✎ ✖

Super-administrator and administrators can:

- Check where the tag is used 🔍

δ(ara-leu)

Tag Use

In Use In **1** Records

[Tag Use In Strains Module](#)

[Tag Use In Animals Module](#)

- Edit the tag ✎

δ(ara-leu)

Edit Tag

In Use In **1** Records

δ(ara-leu)

Warning: The tag will also be edited on all the records that use it

Confirm Edition

- Delete it ✖.

δ(ara-leu)

In Use In 1 Records

Warning: 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.

Note: When the genotype tags are imported, they have to be separated by a space.

10-8. Lists and series

Here, you can retrieve all the lists of records and have the list available later to edit with . Each list has a barcode allowing to be searched more easily.

Search barcode/ID: OR keywords: AND NEWER than 500 days

3 results found					
Saved Worklists found					
ID	Name	Date	Description	Owner	
2	Liste 1	2016-01-04 15:40:18		Anne-Laure Sauvadet	 
3	remove voi	2016-10-20 14:41:57		Anne-Laure Sauvadet	 
8	Sample test A	2017-03-22 17:05:55		Anne-Laure Sauvadet	 

10-9. Staff Contacts

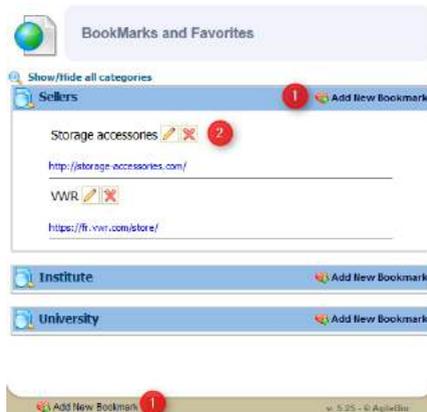
Consult or print your staff list easily.



10-10. Lab Bookmarks

Bookmarks can be added by clicking on the  *Add new bookmarks* (1) either at the bottom or for each category, refer to [chapter 4-13](#).

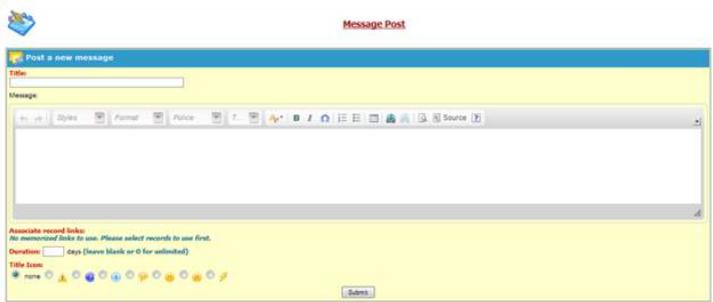
You can also edit or delete   each bookmark (2).



10-11. Message center

A simple and practical messaging system allows users to post messages addressed to everybody on the main page. **Users Posts**  

Users can add new messages by clicking on the  New post.



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.



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.

10

You may associate an icon to the message to help users understand the intent. You can also use  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 > Data > 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). All users can then use these recipes (Part 2).

Part 1: Managing Recipes

With admin or super-admin access navigate to [Admin > Data > Manage Recipes](#). You will be presented with this screen:



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:

Save Cancel

1 Name

Description

2 Components

Beef extract	Qt: <input type="text" value="3"/>	<input type="text" value="g"/>	<input type="button" value="X"/>
Yeast Extract	Qt: <input type="text" value="3"/>	<input type="text" value="g"/>	<input type="button" value="X"/>
α-Lactose monohydrate	Qt: <input type="text" value="15"/>	<input type="text" value="g"/>	<input type="button" value="X"/>
Sodium deoxycholate	Qt: <input type="text" value="1"/>	<input type="text" value="g"/>	<input type="button" value="X"/>
Crystal violet	Qt: <input type="text" value="0.005"/>	<input type="text" value="g"/>	<input type="button" value="X"/>
Bromothymol Blue	Qt: <input type="text" value="0.08"/>	<input type="text" value="g"/>	<input type="button" value="X"/>
Sodium thiosulfate	Qt: <input type="text" value="1"/>	<input type="text" value="g"/>	<input type="button" value="X"/>
Agarose	Qt: <input type="text" value="11"/>	<input type="text" value="g"/>	<input type="button" value="X"/> <input type="button" value="+"/>

3 Component Options

- Partial recipe allowed
- Accept expired lots
- Allow Lot Quantity Modification

4 Final Product

Type

- New product not in stock
- Lot on existing product
- Only lot consumption and no final product
- Free choice by user at recipe execution

Module

Lot Expiration: (Days)

Lot Expiration Modification

- Allowed
- Not Allowed

Lot Status

- Ready to use
- On hold

5 Observations

Instructions / Observations

Rich text editor toolbar with icons for undo, redo, bold, italic, link, unlink, list, link, unlink, source, bold, italic, strikethrough, subscript, superscript, text color, background color, and help.

1. A name and description of the recipe must be provided.
2. Components of the recipe are selected by either clicking the arrow to see a drop down list or by typing to use the form as an autocomplete field.

! NEW ! You can now filter by category to have a reduced list of components.

10

Components

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.

3. You can also decide if 1) partial recipes are allowed, 2) only lots within their expiration dates may be used and 3) quantities modification are allowed.

Click on the icon  to add and define additional components.

4. **Final Product type** - choose from four options.

a. *New Product 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. **! NEW !** You can indicate an expiration interval in days (from the recipe production date) to automatically set up the expiration date.

Final Product

Type New product not in stock
 Lot on existing product
 Only lot consumption and no final product
 Free choice by user at recipe execution

Module

Lot Expiration (days)

Lot Status Ready to use
 On hold

If you indicate a lot expiration, you can also select if you allow the modification of the expiration date after the lot creation.

Lot Expiration (Days)

Lot Expiration Modification Allowed
 Not Allowed

b. *Lot on existing product* - 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. **! NEW !** You can indicate an expiration interval in days (from the recipe production date) to automatically set up the expiration date.

Final Product

Type New product not in stock
 Lot on existing product
 Only lot consumption and no final product
 Free choice by user at recipe execution

Module:

Record:

Lot Expiration: (days)

Lot Status Ready to use
 On hold

c. *Only lot consumption and no final product* – as stated, there is no final product.

Final Product

Type New product not in stock
 Lot on existing product
 Only lot consumption and no final product
 Free choice by user at recipe execution

d. *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

Type 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:

Observations

- No Designated Module
- Strains & Cells
- Plasmids
- Primers
- Reagents & Supplies
- Samples
- Antibodies
- Sequences
- Animals
- Equipment

5. **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.

After saving, the recipe will appear in a list when navigating to [Admin > Data > Manage Recipes](#). The recipe will also be available for other users who can find it by navigating to [Tools > Recipes/Production](#). The recipe manager provides the option to select a recipe to edit and to view the list of recipes.



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.

Part 2: Using Recipes

After recipes have been created, the recipe tool may be used. First, navigate to [Tools > Recipes/Production](#).

The production Manager/Recipes main screen is a simple search tool. This provides an option to search for a recipe 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).

Production Manager (Recipes)

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.

CTAB extraction buffer

Instructions / Observations

Prepare CTAB extraction buffer immediately before use; buffer is only good when freshly prepared.

Final Product

Final Product Type: New product not in stock

Final Product Name: CTAB extraction buffer

Final Product Module: Reagents & Supplies

Create Product Lot: 2019-03-25_CD 2020-03-25 1 unit

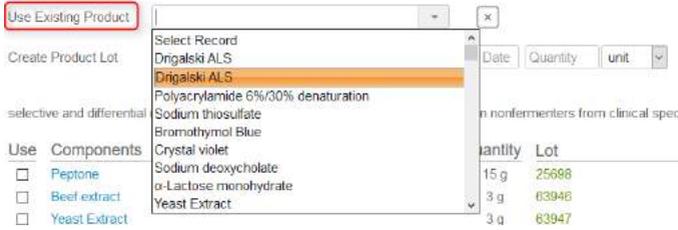
Final Product Lot Status: Ready to use On hold

Use	Components	Quantity	Lot	Validity	Quantity
<input checked="" type="checkbox"/>	β-Mercaptoethanol	0.02	137	2019-09-27	100.00
<input checked="" type="checkbox"/>	NaCl	2.0	133	2020-02-29	100.00
<input type="checkbox"/>	0.5 M EDTA (pH 8.0)	0.4	134	2019-12-31	100.00
<input type="checkbox"/>	1 M Tris-Cl (pH 8.0)	1	135	2027-03-31	100.00
<input type="checkbox"/>	Cetyltrimethyl ammonium bromide (CTAB) (10% in H ₂ O)	3	132	2020-01-31	100.00
<input type="checkbox"/>	Water	2.48	138	2019-12-27	100.00

The screen shows the following:

1. The recipe name
2. The Instructions/Observations
3. In case of free choice, there are 3 options to choose from New product not in stock, Lot on existing product and Only lot consumption and no final product.

10



4. Place to enter the name of the 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 of 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.

Quantity	Lot	Validity	Quantity
15 g	Insufficient Stock		
3 g	63946	2019-03-15	91.00 g

Quantity	Lot	Validity	Quantity
15 g	Out Of Stock		
3 g	63946	2019-03-15	91.00 g

2 mL	5987	2020-03-12	998.00 mL
24 mL	58749-open	⚠ 2017-03-28	488.00 mL

Quantity	Lot	Validity	Quantity
3	ghjkghtf	⚠ 2023-03-24	18.00

Selected Lot Is Not The Older (FIFO Rule)

Lot Number: ghjkghtf
 Validity: 2023-03-24
 Available: 18.00

Older Lot (FIFO Rule)
 A256398 (Validity: 2020-03-05 Available: 0.00)

Other Available Lots
 ghjkghtf (Validity: 2023-03-24 Available: 18.00)

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  for a component will allow a selection of a different lot to use.

10. Clicking the “Use” button will confirm the recipe. Using “Back” 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 deducted from the indicated lots.

If you attempt to use 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.

Select Recipe Back

New product not in stock

Created Product: **CTAB extraction buffer** Created Lot: ABG-000123

Recipe: **CTAB extraction buffer** Prep. Date: 2019-03-25 17:33:11 Person Responsible: admin

Quantity	Constituent	Seller Reference	Seller	Lot	Validity
0.02	β-Mercaptoethanol	FYR-10009	Sigma	137	2019-09-27
2.8	NaCl	YTR-08768	Sigma	133	2020-02-29
0.4	0.5 M EDTA (pH 8.0)			134	2019-12-31
1	1 M Tris-Cl (pH 8.0)	BUF-8760	Qiagen	135	2027-03-31
3	Cetyltrimethyl ammonium bromide (CTAB) (10% in H2O)	UIH-66543	Sigma	132	2020-01-31
2.48	Water	AQU-09867	Roche	138	2019-12-27

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 bar for recipes that have been used
- 2) Indication of the Final Product type - New Product not in stock/ Lot on existing product/ Only lot consumption and no final product.
- 3) Created Lot and Product. Clicking on the hyperlink will navigate to the product record.
- 4) Name of recipe used. Clicking will prompt for a download of the report for making this recipe. The date and user are also indicated.
- 5) List of components. 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.

588 Polyacrylamide 6%/30% denaturation Made from recipe "Polyacrylamide 6%/30..."

Creation Date: 2017-03-30 15:45:54 (Last Update:)

Description: Made from recipe "Polyacrylamide 6%/30% denaturation" on 2017-03-30 15:45:54 by Anne-Laure Sauvadet

Category:

Seller:

Seller Reference:

Seller Price:

Packaging Size:

Storage

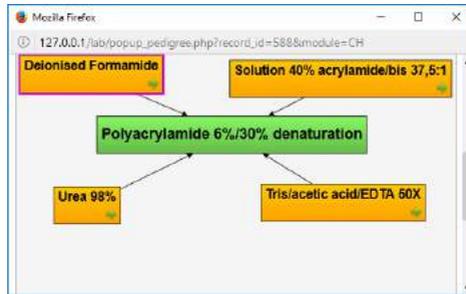
Add Storage

Availability

Minimum Quantity:

Add To Order List

Solution: 40% acrylamide/bis 37.0:1 Urea 98% Trisacetic acid/EDTA 55% Distilled Formamide Add Link **Open Treeview**



An example of the PDF report.

Lab name

Let us raising product
AGB-2234

Let Created in Product
CTAB extraction buffer

Module: Reagents & Supplies

Recipe: CTAB extraction buffer

Prep. Date: 2019-03-25 17:41:05

Person Responsible: admin

Components					
Quantity	Constituent	Seller Reference	Seller	Lot	Validity
0.02	B-Mercaptoethanol	FYR-10009	Sigma	137	2019-09-27
2.8	NaCl	VTR-98758	Sigma	133	2020-03-29
0.4	0.5 M EDTA (pH 8.0)			134	2019-12-31
1	1 M Tris-Cl (pH 8.0)	BUF-0760	Gibco	135	2027-03-31
2.48	Water	AQU-69867	Roche	138	2019-12-27
3	Cetyltrimethyl ammonium bromide (CTAB) (10% in H2O)	UW-64543	Sigma	132	2020-01-31

Observations:

11- EXPANDING LABCOLLECTOR

LabCollector capacities can be expanded by integrating Add-on modules which can be 3rd 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.

11-1. Add-on modules



Samples Batch Tools (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.

A 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 transgenesis. 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.



Data 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 define reader models (templates) within the interface. Only a few details about 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.



Multi-Purchase Orders Manager

This application allows administrative department manager to have access to all the purchase lists from 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 of interest 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.

11-2. Add-ons loading requirements

Download add-ons that you need on [LabCollector](#), 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.

12- UPDATING AND UPGRADING

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.

12-1. 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.



Do not touch the "*documents*", "*backup*" and "*maps*" folders. Also, take care not to alter, delete or destroy "*config.php*" file.

12-2. 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.n to X.z, for example from 4.6x to 4.7x.

On the server computer, access the following address from the browser:

<http://127.0.0.1/upgrade.php>



Do not touch to "*documents*", "*backup*" and "*maps*" folders. Also, take care not to alter, delete or destroy "*config.php*" file.



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