

Manual for administrators

Table des matières

Foreword	2
Finalization of the installation	2
Home page	2
Data backup and recovery.....	2
Preferences.....	3
Benchmark of analyses.....	3
Use of the repository via the software.....	4
Add a new analysis	4
Status of the analysis.....	9
Import/Export of repository	9
Role management	9
User management.....	12
Creating a user.....	12
User language.....	13
Report setup.....	14
Logo setup	14
Report number setup	14
Billing management.....	15
Setting up the functional units.....	15
Add unit	16
Assign users	16
Assign analysis families	16
Configuration of requesting services	18
Storage configuration.....	18

Foreword

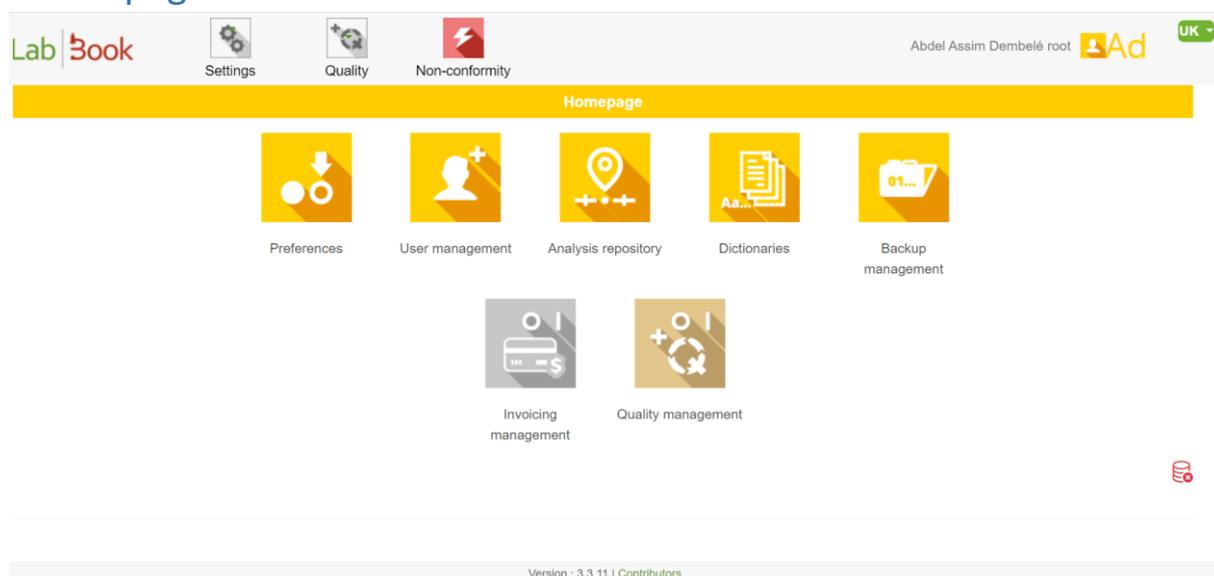
This manual presents the elements of LabBook that are accessible to a person with "administrator" rights. If you do not have access to any of the actions via your interface, please contact your IT specialist so that these rights can be assigned to you.

This manual also presents the actions to be performed by the LabBook server administrator.

Finalization of the installation

Once the LabBook server has been installed, you must finalize the configuration of your system so that it is operational without worry (automatic backup, user management, repository configuration, etc.).

Home page



To connect to the LabBook software for the first time, you must use the root account and the associated default password root.

For security reasons, it is imperative that you change this password. Once connected, click on "Administrator", "Change password" at the top right of the screen.

Data backup and recovery

Since LabBook 3, LabBook backups and restorations are managed directly from the application under the "root" account. Please refer to the "LabBook version 3 Backup and Restore" manual to perform your backup and restore operations.

Preferences

List of preferences	
Label	Value
Unit price for sampling and analysis procedures	<input type="text" value="1000"/>
Document header 1	<input type="text" value="Nom du laboratoire"/>
Document header 2	<input type="text" value="Sxxx au capital de xxx € RCS xxx xxx xxx autorisation n°xx xxx"/>
Document header 3	<input type="text" value="Horaires : du lundi au vendredi : 07h00-19h00, le samedi : 07h30-12h00 www.example.com"/>
Document header - Address	<input type="text" value="100 place de la République 10000 Maville"/>
Document header - Phone	<input type="text" value="01 23 45 67 89"/>
Document header - Fax	<input type="text" value="01 98 76 54 32"/>
Document header - Email	<input type="text" value="labo@examples.com"/>
Document header - City	<input type="text" value="Ma ville"/>
Inpatient billing	<input checked="" type="checkbox"/>

Via the menu "Settings" and then "Preferences", you can make changes to the parameters of your application. Each field can be edited by typing directly into it.

Everything about document headers allows you to change the way your lab address is displayed on invoices and reports.

If your lab's practice is to bill for inpatient tests, simply check the "Inpatient Billing" field.

The Quality and Invoicing modules can be activated/deactivated in the same way by checking the associated fields.

The automatic logout time allows you to determine after how many minutes of inactivity a user is logged out. This ensures that a user does not stay logged in for too long when not using the software, which could allow someone else to access the software on their behalf.

Benchmark of analyses

The test repository is the element that allows you to indicate the tests done in your laboratory. It allows you to activate/add/deactivate them. It also allows you to change their prices, their analysis family and the necessary sample(s) of the analysis.

Use of the repository via the software

Analysis repository

Search

Designation of the act

Analysis family

Type of specimen

Active analysis Yes

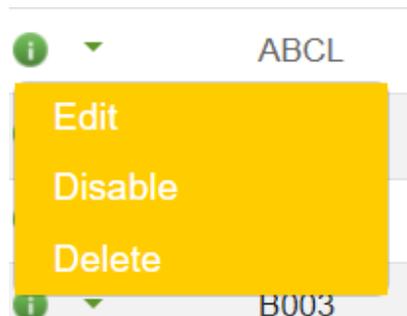
Search

Total number of lines : 508
First Previous 1 Next Last

Action	Code	Designation	Abbreviation	Family	Status	Bio. product
	781	Dépistage syphilis		Immunologie	Activated	
	ABCL	Antibiogramme 1ère ligne des mycobactéries en milieu liquide	ATBBKML TUB	Bactériologie	Activated	
	B001	Acide urique (uricémie)		Biochimie sanguine	Activated	PB1 : Prélèvement de sang veineux
	B002	Bicarbonates		Biochimie sanguine	Activated	PB1 : Prélèvement de sang veineux
	B003	Bilirubine totale		Biochimie sanguine	Activated	PB1 : Prélèvement de sang veineux
	B004	Créatininémie		Biochimie sanguine	Activated	PB1 : Prélèvement de sang veineux

The analyses and types of samples are listed in the table above. For each test, you have the code, designation, abbreviation, associated family, status and associated biologicals.

To search for a test, enter its code or name in the "Procedure description" field and click on the Search button. You can refine the search by selecting the family of the analysis and the type of sampling associated. Select "Active test" No to display the deactivated tests.



To modify an analysis, click on Action then Edit on the line of the analysis to be modified.

Disable: Allows you to hide the analysis when adding analyses on the "Analysis request" page.

Delete: Deletes the analysis from the database,

At the bottom of the list, you have the option to:



Add an analysis. Remember to check the analysis in the database via the search engine to avoid creating it twice.

Add a new analysis

The interface has two blocks:

Analysis

Analysis

Code * Designation of the act * Abbreviation

Analysis family Type of specimen

Rating unit Quotation value Active analysis Yes No Whonet export Yes No

Comments

Analysis: includes analysis fields, you can create new analyses by filling in at least the "Code" and "Procedure name" fields.

Variables

Search for a variable

Label * Var. code Id

Result type * Description

Normal value min. Normal value max. Underline Yes No

Formula Unit Accuracy

Num. var for the formula Display position

Comments

Mandatory result Yes No Whonet export Yes No

Generate a QR code Yes No

Variables: in this part you can add the variables of the analysis.

It is recommended to search for the variable in the "Search for a variable" field before creating it, if it is found, click on the name to add it to the list. Otherwise, click on the + button to activate the grayed-out fields and then fill them in.

Label: Short text designating the variable

Code var and Id: Unique identifier/code for the variable. Can be left blank when adding a variable. The system will automatically generate one and assign it to the variable created.

Result type: this field defines the type of values the variable can take. It can be an integer (number without decimal point), real (number with decimal point), character string (text, number and special characters), label (used to position a label on the report, calculated (if the value of the variable is obtained by a calculation formula).

Click on  to display the dictionary values associated with the variable's result type.

For example, the "Species" variable in the "Plasmodium detection (thick drop and thin smear)" analysis is associated with the "Malaria Species" result type.

Dictionary name Description

[Add a value](#)

Values

Action	Label *	Code *	Short label	Position	Formatting
Delete	<input type="text" value="None"/>	<input type="text" value="neant"/>	<input type="text" value="neant"/>	<input type="text" value="5"/>	<input type="text" value="No"/> <input type="text" value="v"/>
Delete	<input type="text" value="Pl. falciparum"/>	<input type="text" value="pl_falc"/>	<input type="text" value="pl_falc"/>	<input type="text" value="10"/>	<input type="text" value="No"/> <input type="text" value="v"/>
Delete	<input type="text" value="P. Ovalae"/>	<input type="text" value="ovale"/>	<input type="text" value="ovale"/>	<input type="text" value="20"/>	<input type="text" value="No"/> <input type="text" value="v"/>
Delete	<input type="text" value="P. vivax"/>	<input type="text" value="vivax"/>	<input type="text" value="vivax"/>	<input type="text" value="30"/>	<input type="text" value="No"/> <input type="text" value="v"/>
Delete	<input type="text" value="P. malariae"/>	<input type="text" value="malariae"/>	<input type="text" value="malariae"/>	<input type="text" value="40"/>	<input type="text" value="No"/> <input type="text" value="v"/>

Description: describes the variable here

Min. normal value: minimum reference value of the variable

Max. normal value: maximum reference value of the variable

Display min./max.: If the field is checked, the reference values are displayed next to the field when results are entered.

Underline: underlines the variable value on the report

Formula: calculates the result of the variable to be performed. The example below illustrates the formula “ $\$_3 * 10 / \$_1$ ” for the calculated variable “Globe volume (GMV)”. $\$_1$ and $\$_3$ are the numbers of the “Hematocrit” and “Red blood cells” variables in the formula.

NB: A variable is called in a formula by its number. The number is indicated in the “Variable number for formula” field.

Label * Var. code

Result type * Description

Normal value min. Normal value max.

Min./max. display Underline Yes No

Formula Unit Accuracy

Unit 2 conversion formula Unit 2 Precision 2

Num. var for the formula Display position

Label * Var. code

Result type * Description

Normal value min. Normal value max.

Min./max. display Underline Yes No

Formula Unit Accuracy

Unit: list of available units. You can add a new unit to the dictionary, go to Settings => Dictionaries. In the Name field, search for unit, then click on Edit. In the "Dictionary" page, click on "Add a value".

Dictionary name Description

Values

Action	Label *	Code *	Short label	Position	Formatting
<input type="button" value="Delete"/>	CFU/ml	UFC/ml	CFU/ml	5	No <input type="button" value="v"/>
<input type="button" value="Delete"/>	%	%	%	10	No <input type="button" value="v"/>
<input type="button" value="Delete"/>	%(HDL)	%(HDL)	%(HDL)	20	No <input type="button" value="v"/>
<input type="button" value="Delete"/>	%(VLDL)	%(VLDL)	%(VLDL)	30	No <input type="button" value="v"/>

Precision: number of digits after the decimal point for real variables.

Unit 2 conversion formula: calculation associated with the new field value according to the second unit selected. Example: "\$ / 1000" converts the value of the variable in µmol/L to mol/L.

Unit 2: second unit associated with the variable

Precision 2: number of digits after the decimal point according to unit 2

Num. var for formula: variable number, used to index the variable when it is called up in the formula.

Display position: controls the order in which variables are displayed on the report and results entry page. They are displayed in ascending order.

Comments: In this field, you can add the values that the results of medical biology examinations may take. For example, the example below illustrates "Creatinine" results according to age and sex.

Label * Var. code

Result type *

Normal value min. Normal value max.

Min./max. display Underline Yes No

Formula Unit Accuracy

Unit 2 conversion formula Unit 2 Precision 2

Num. var for the formula Display position

Comments Mandatory result Yes No

Mandatory result: when unchecked, results are not required.

WHONET export: check if variable results are to be exported to the WHONET file.

NB: WHONET export is configured for analyses (Antibiogram) coded between B650 and B681.

Generate QR code: Generates a QR code on the results report. This option is only available for COVID analyses.

Variables

Search for a variable

Label * Var. code Id

Result type * Description

Normal value min. Normal value max. Underline Yes No

Formula Unit Accuracy

Num. var for the formula Display position

Comments

Mandatory result Yes No Whonet export Yes No

Generate a QR code Yes No

Action	Name	Unit	Min	Max	Num. var	Position
<input type="button" value="✎"/> <input type="button" value="✕"/>	Chlore	mmol/l	98	106		
<input type="button" value="✎"/> <input type="button" value="✕"/>	Potassium	mmol/l	3.6	4.5		10
<input type="button" value="✎"/> <input type="button" value="✕"/>	Sodium	mmol/l	135	145		20

The variables added to the analysis are listed in the table. To modify a variable, click on the pencil, the details of the variable are placed in the fields of the variable block, then modify the information displayed. You can repeat the operation to modify other variables.

Finally click on the Save button to apply your changes.

Status of the analysis

By clicking on "Status of analyses", you can disable/enable all analyses". This is important for laboratories that want to enable only the analyses performed in the laboratory.

Import/Export of repository

At the bottom of the repository list, it is possible to import a repository. This allows you to load the repository that is provided to you.

You can also export your repository (CSV format). You can then modify your repository with a text editor and then reimport it.

Role management

A new "Role Management" feature is available from LabBook 3.5. It can be accessed from the root user's home page. You can now create custom roles from 9 existing profiles, for example, create a new role derived from the biologist role by assigning more or fewer rights to it.

To add a new role, go to the List of roles page by clicking on the Manage roles icon and then on Add role.



Preferences



Role management



User management

Once on the page for adding a Role, you must:

1) Choose a *basic role* from the 9 roles below:

- Administrator
- Biologist
- Stock manager
- Laboratory
- Prescribe
- Quality manager
- Secretary
- Technician
- Sampler

LabBook Settings Quality Non-conformity 2 root Ad UK

Role

Basic Role * ▼

Name of this role *

Primary color

Hover color

Text color

Rights

Label	Enable
-------	--------

Insérer capture page Rôle

Once a basic role has been selected, the list of applicable rights is displayed. By default, the rights accessible by the basic role are checked as yes and the rest as no. The user can edit the rights by activating or deactivating to create a personalized role. 2) Enter a meaningful name for this new role: NB: Don't use the name of the basic roles to avoid confusion.

3) Choose the color scheme for the new role

After selecting a basic role, you can customize the colors of the new role.

- Main color: main color of the pages (banner, background of drop-down menus)
- Hover color: background color when the mouse hovers over the various drop-down menus
- Text color: color of the texts in the drop-down menus and banner titles.

LabBook Settings Quality Non-conformity 2 root Ad UK

Role

Basic Role * Biologiste ▼

Name of this role * biotech

Primary color

Hover color

Text color

Rights

Label	Enable
Administration	<input type="radio"/> Yes <input checked="" type="radio"/> No

Editer les droits de profils

Insérer capture page Rôle

4) Register the role

At the bottom of the page, confirm your new role by clicking on the “Save” button. It will be listed in the role list table.

Role list			
▼	azalala	secetaire	1
▼	bio+	biologiste	0
▼	bio21	biologiste	1
▼	Biologiste	biologiste	1
▼	bionew1	biologiste	1
▼	biotech	biologiste	1
▼	btets	biologiste	0
▼	Gestionnaire de stock	gestionnaire stock	3
▼	Laboratoire	laboratoire	2
▼	minibio	biologiste	0

Insérer capture page Rôle

NB: It is not possible to modify and/or delete a basic role, it can only be consulted.

User management

Search

Login Firstname Role

Name Status

Total number of lines : 10
First Previous 1 Next Last

Action	Id	Login	Firstname	Name	Status	Creation date	Role	Department	Origin
<input type="button" value="Edit user"/> <input type="button" value="Edit password"/> <input type="button" value="Disable user"/>	1	root	Abdel Assim Dembelé	root	Activated	2015-12-15	Administrateur		
	2	biologiste	Bernard	BIO	Activated	2021-03-04	Biologiste		
	3	technicien	Thierry	TECH	Activated	2021-03-04	Technicien		
	4	techav	Thomas	TECHAVANCE	Activated	2021-03-04	Technicien avancé		
	5	techq	Thibault	TECHQUALIT	Activated	2021-03-04	Technicien qualicien		
	6	secrtaire	Sophie	SECR	Activated	2021-03-04	Secrétaire		
	7	secrav	Sylvie	SECRAV	Activated	2021-03-04	Secrétaire avancé		
	8	qualicien	Quentin	QUALIT	Activated	2021-03-04	Qualicien		
	9	prescripteur	Patrick	PRESCR	Activated	2021-03-04	Prescripteur		
	10	bio			Activated	2023-07-20	Biologiste		root

First Previous 1 Next Last

This interface allows you to search for a user. In the action's menu, you can:

- Edit a user: this allows you to change the information (name, first name, email address) as well as his rights.
- Edit password: allows you to manually change a user's password.
- Disable user: Allows you to suspend a person's access.
If a member of your team leaves, we advise you to change their password and disable their account.

Creating a user

If you can't find the user you want, click on "Add a user".

User rights

Role *

Access

Login*

Password*

Confirm password*

Internal identification number

Professional card number

Identity

Firstname

Name

Lang * Français (FR)

Email

Title

	7	secrav	Sylvie	SECRV	Activated	2021-03-04	Secrétaire avancé
	8	qualicien	Quentin	QUALIT	Activated	2021-03-04	Qualicien
	9	prescripteur	Patrick	PRESCR	Activated	2021-03-04	Prescripteur
	10	bio			Activated	2023-07-20	Biologiste

First Previous 1 Next Last

[Back](#)

[Import users](#)

[Export users](#)

[Export of connections](#)

[Add a user](#)

First you choose your role. Once the role is chosen, fill in the fields related to the user's Access and Identity. Once this is done, save. The new user will appear in the user's table.

User language

When choosing the user's language, you have 3 options:

- French (FR)
- English (US)
- English (UK)

The difference between the two English versions is only in the format of the dates:

- US: MM/DD/YYYY
- UK: DD/MM/YYYY

Report setup

Report setup

Type of header Full Simple

Show comments Yes No

[Back](#)

This part allows you to choose different presentations for your reports. If the comments entered by the biologist should not appear, you can deactivate them by clicking on "No".

The header type allows you to have a shorter version called "simple".

Logo setup

Logo setup

Original logo : 

Logo as it will appear in the report header
Width forced to 230 pixels and retains proportions : 

File must be in png or jpg format

Aucun fichier choisi

[Save](#)

By going through the menu "Settings" then "logo setup", you can load a new logo for your laboratory.

Think about the resolution needed to have a good impression on your report.

Report number setup

Record number setup

Numbering period Months Year

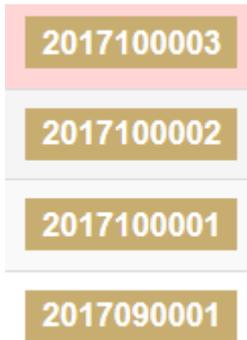
Numbering format Short Long

[Back](#)

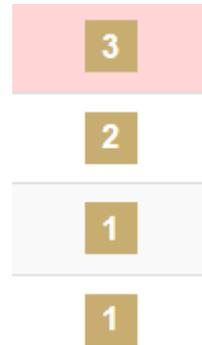
You can choose to have the file numbers reset every month or every year. We do not recommend making this change during the year, as you may have to manage two numberings in parallel.

The "short" numbering format only shows the final numbering in the software interfaces. If you want to see the year and month, you must choose the long numbering.

Example of long numbering:



Example of short numbering:



Billing management

Via your homepage, you can disable/enable billing. If the icon is grey, it means that the function is disabled:



Invoicing management



Quality management

If the icon is yellow, the function is active:



Invoicing management



Quality management

Setting up the functional units

This feature allows you to create different units/departments/labs when sharing the same LabBook server for multiple labs. This group creation will allow you to separate the data, i.e. a person in unit X will not be able to see the data in unit Y.

Add a unit

Functional unit

Action	Name	No. users	No. ana family.	Position
 ▾	<input type="text" value="Parasitology"/>	0	0	<input type="text" value="1"/>
 ▾	<input type="text" value="Bacteriology"/>	0	0	<input type="text" value="2"/>
 ▾	<input type="text" value="Biochemistry"/>	0	0	<input type="text" value="3"/>

Back Save

Add unit

Click on the "Add a unit" button, a new line will be created.

 ▾	<input type="text" value="Biochemistry"/>	0	0	<input type="text" value="3"/>
 ▾	<input type="text"/>	0	0	<input type="text" value="0"/>

Enter the name of the unit and its position then click on save.

Assign users

Once the unit is created, you can assign users to it by clicking on the Action column and then "Assign users". When the page appears, select the users to be assigned to the unit and save.

Parasitologie

	Login	Firstname	Name	Role
<input checked="" type="checkbox"/>	biologiste	Bernard	BIO	Biologiste
<input type="checkbox"/>	bio			Biologiste
<input type="checkbox"/>	prescripteur	Patrick	PRESCR	Prescripteur
<input type="checkbox"/>	qualiticien	Quentin	QUALIT	Qualiticien
<input type="checkbox"/>	secrtaire	Sophie	SECR	Secrétaire
<input type="checkbox"/>	secrav	Sylvie	SECRVAV	Secrétaire avancé

Assign analysis families

One or more analysis families can be assigned to the unit. To do this, click on Action then "Assign analysis families". Select the analysis families and save.

Parasitologie

Name	
<input type="checkbox"/>	Biochimie
<input type="checkbox"/>	Biochimie sanguine
<input type="checkbox"/>	Biochimie urinaire
<input type="checkbox"/>	Hématologie
<input type="checkbox"/>	Hématologie, Immunohématologie et Hémostase
<input checked="" type="checkbox"/>	Parasitologie
<input type="checkbox"/>	Mycologie

Forms configuration

Form configuration allows you to load a patient form into LabBook and to hide or display specific fields in the following forms: Product and Supply.

For example, you can hide the fields Second Name, Maiden Name, and Nationality on the patient form. This by downloading and modifying the file form_patient.fr.toml. Clear documentation on customizing the toml file is available at this [link](#).

Forms configuration

Patient form

Choisir un fichier

Aucun fichier choisi

Save the form

File	Action
form_patient_fr.toml	Download - Delete - Preview

On the Patient form, when adding a new patient, you will notice that these fields are hidden on the "Patient analysis request - Patient form" page.

Name

Firstname(s)

Sex * Male Female Unknown

Configuration of requesting services

[Add a department](#)

Requesting services

Action	Name	Position
Delete	Maternity	1
Delete	Emergency	2
Delete	Cardiology	3

[Back](#) [Save](#)

Create the requesting departments to be found in the "Requesting Department" by adding an inpatient analysis request.

Hospitalization

Date of admission

Requesting department

Bed number

Numéro d'identification

When they are added and selected in the inpatient records, you will be able to filter the statistics by department in the Statistical Report.

Search

Date from to Requesting department

Distribution of records

	Less than 5 years	5 to 20 years	20 to 40 years	Greater than 40 years
Male	0	3	5	0
Female	0	0	1	0
Unknown	0	0	0	0
Internal	0	3	0	0
External	0	0	6	0
Total	0	3	6	0

Storage configuration

Number of days before warning

Number of days before alert

You can customize the number of days before warning and alert in "Settings" and then "Stock settings":

Lab | Book

- Number of days to warning = Number of days difference with the expiration date before the product display turns light orange
- Number of days before alert = Number of days difference with the expiration date before the product display turns light pink