

# LabCollector



## User Guide For Plants Manager Add-on

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## 1- INTRODUCTION

**T**hank you for choosing one of AgileBio's solutions for the management of your lab. The **Plants Manager add-on** is a web-based solution allowing efficient management of your seeds and plants. This add-on is associated to storage management and barcode support systems.

The **Plants Manager** provided by AgileBio is suitable for research projects and company projects.

**Plants Manager add-on** is fully integrated with **LabCollector**, the LIMS we developed for life science research labs, Pharma and biotech industries.

**LabCollector** is a copyrighted product from AgileBio.

## 2- GETTING STARTED

You can get **Plants Manager add-on** simply by downloading from [www.labcollector.com](http://www.labcollector.com). LabCollector has to be installed first as it contains the framework. LabCollector support documents for installation are available on our website. **Plants Manager add-on** can be installed on any operating system (Windows, MacOS X, Linux).

### 1-Manual mode:

Unzip and paste **Plants Manager add-on** folder in the extra modules folder. For Windows it would look like:

```
C:\Programs\AgileBio\LabCollector\www\lab\extra_modules\plantsmanager
```

### 2-Automatic mode from LabCollector interface:

You can also use LabCollector Menu “Admin > Setup > Upload/Add Addons > Upload Addon ZIP > Add Addon”

Open or return to LabCollector, the **Plants Manager add-on** module is now activated. Click on the module to finish the installation.

The add-on will remain in a 30 days free trial mode until you save the final license “Setup License”. To obtain a valid license, you have to copy and send the activation key to AgileBio.

### 3- OVERVIEW

Plants Manager main interface is composed of (see next picture):

- A menu bar with 5 tabs:
  - Trays.
  - Plants.
  - Seeds.
  - Import.
  - Setup.
- A search menu by ID, barcode, plant name or tray name.

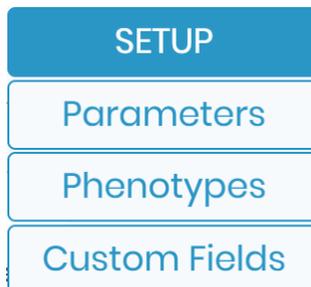
By default, users are on the Plants menu.



Plant ID	Reference	Date	Tray Name	Seed No	Plant ID (outlings)	Plant Name	Researcher	Ecotype	Age	Harvest Date
2810	67 - 2		test NE	4227		TEST rajana	Wanda Wong			2021-08-26
2808	69 - 1		delete test 1	4225		gh-ph-1	Wanda Wong			2021-08-25
2807	44 - 1	2020-10-14	test tray 1 (modified)	4223		test tray 1 seed 1 plant 2	Wanda Wong		972	2023-06-13

#### 3-1. Setup menu

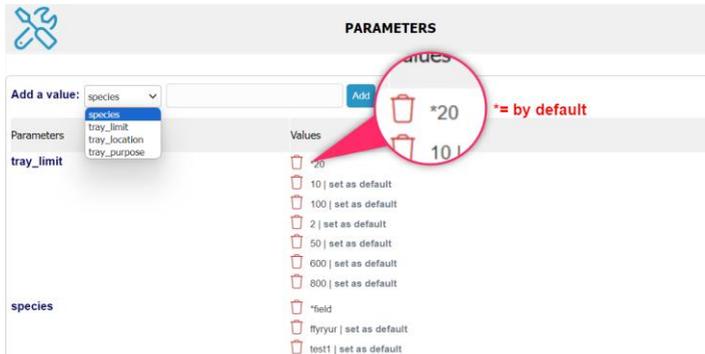
Only users with an administrator profile can access to the Setup menu.



From this menu, parameters, phenotypes and custom fields can be configured.

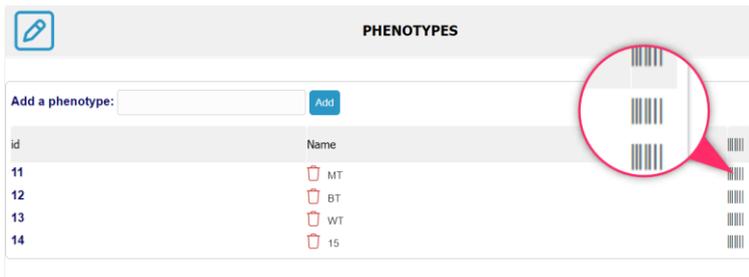
### 3-1-1. Parameters

From this section, users can add species, tray limit, tray location and tray purpose parameters. To define default settings, click on “set as default” near the chosen values.



### 3-1-2. Phenotypes

From this section, users can configure plants phenotypes. Each phenotype has its own barcode.



### 3-1-3. Custom fields

To customize their plants, seeds and trays records, users can create custom fields.

1. Select plants, seeds or trays level.
2. Add a new field by indicating its name.
3. Choose custom field length: 50, 100, 250 or more characters.

4. Indicate if the field is searchable or not.
5. Click on **Save New** button.

### CUSTOM FIELDS

Add, Edit or Delete. Use these options to add or remove additional custom fields on the modules.

Tables: Custom table fields: **pm\_plant**

- Plants
- Seeds
- Trays

Field Name	Field Type	Cat	Field Options	Actions	
1 origin	field (50)		use in searches: <b>Yes</b>		7002
2 color	field (50)		use in searches: <b>Yes</b>		7003
3 characteristics	field (50)		use in searches: <b>Yes</b>		7004
4 test123	field (250)		use in searches: <b>Yes</b>		7005

Click to update display order →

Add New Custom Field

**Field Name**

Field Type  Free text field

Length:

Searchable:  Yes  No

Save New

Custom fields can be edited , deleted and reorganized:

Field Name	Field Type	Cat	Field Options	Actions	
1 origin	field (50)		use in searches: <b>Yes</b>		7002
2 color	field (50)		use in searches: <b>Yes</b>		7003

Modify custom fields order and click on update display order

### 3-2. Trays menu

From this menu, users have a trays list view. Users can also find a specific tray  and add new trays records NEW RECORD .

From the trays list view, users can:

- View trays records.
- Edit trays records.
- Harvest trays plants.

- Disposed trays.
- Duplicate trays.
- Print trays barcodes.
- Print all plants barcodes of a tray.
- Delete trays.

Plants manager  
Add-ons | Plants manager | Trays

SEEDS TRAYS PLANTS DATA SETUP

Quick Search by ID

FIND  1 | 2 | 20 results/page

Tray ID	Tray Name	Tray type	Researcher	Date	Removal Date	Purpose	Plant Limit	Free space	Location	Aracons	Disposed	Sown By	Actions
43	Master tray (modified)	Master tray	Stapan Khomanko	2020-09-25	2023-06-14	test purpose	800	660	RM 842	Yes	No		<input type="button" value="Q"/> <input type="button" value="E"/> <input type="button" value="P"/> <input type="button" value="D"/>
23	Master tray 1	Master tray	Stapan Khomanko	2020-09-28	2020-10-30	test purpose	600	280	Green House 42	No	No		<input type="button" value="Q"/> <input type="button" value="E"/> <input type="button" value="P"/> <input type="button" value="D"/>
24	Master tray 2	Master tray	Stapan Khomanko	2020-09-28	2020-10-30	test purpose	1400	0	RM 842	No	No		<input type="button" value="Q"/> <input type="button" value="E"/> <input type="button" value="P"/> <input type="button" value="D"/>
85	Master tray 2	Master tray		2020-9-30	2023-06-13	test purpose	600	600		No	Yes		<input type="button" value="Q"/> <input type="button" value="E"/> <input type="button" value="P"/> <input type="button" value="D"/>
66	gh-Tray-1	Tray	Wanda Wong	2020-11-20	2021-08-25	test purpose	600	600		No	Yes		<input type="button" value="Q"/> <input type="button" value="E"/> <input type="button" value="P"/> <input type="button" value="D"/>
89	delete test 1	Tray		2020-10-13	2021-08-25	test purpose	600	599		No	Yes		<input type="button" value="Q"/> <input type="button" value="E"/> <input type="button" value="P"/> <input type="button" value="D"/>

For more details on trays management, [see chapter 4.2](#).

### 3-3. Plants menu

From this menu, users have a plants list view which can be reduced to users live plants .

Users can also find a specific plant  and add new plants records .

From the plants list view, users can:

- View plants records.
- Edit plants records.
- Harvest plants.
- Duplicate plants.
- Print plants barcodes.
- Extract plants samples and registered them in LabCollector samples module.
- Delete plants.

Plants manager  
Add-ons | Plants manager | Plants

SEEDS TRAYS PLANTS DATA SETUP

Quick Search by ID

MY LIVE PLANTS FIND  1 | 131 | 20 results/page

Plant ID	Reference	Date	Tray Name	Seed No	Plant ID (cuttings)	Plant Name	Researcher	Ecotype	Age	Harvest Date	Actions
2616	87 - 2		test MC	4227		TEST njana	Wanda Wong			2021-08-26	<input type="button" value="Q"/> <input type="button" value="E"/> <input type="button" value="P"/> <input type="button" value="D"/>
2608	89 - 1		delete test 1	4228		gh-ph-1	Wanda Wong			2021-08-25	<input type="button" value="Q"/> <input type="button" value="E"/> <input type="button" value="P"/> <input type="button" value="D"/>
2607	44 - 1	2020-10-14	test tray 1 (modified)	4222		test tray 1 seed 1 plant 2	Wanda Wong		972	2023-06-13	<input type="button" value="Q"/> <input type="button" value="E"/> <input type="button" value="P"/> <input type="button" value="D"/>

For more details on plants management, [see chapter 6.2](#).

### 3-4. Seeds menu

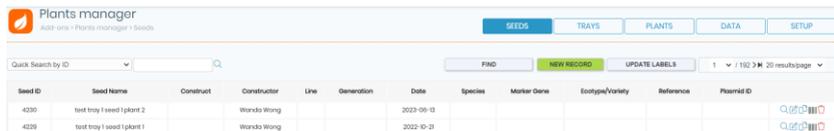
From this menu, users have a seeds list view.

Users can also find a specific seed , add new seeds records

and update seeds labels .

From the seeds list view, users can:

- View seeds records.
- Edit seeds records.
- Duplicate seeds.
- Print seeds barcodes.
- Delete seeds.



The screenshot shows the 'Plants manager' interface with the 'SEEDS' menu selected. Below the menu is a search bar and buttons for 'FIND', 'NEW RECORD', and 'UPDATE LABELS'. A table displays seed records with columns for Seed ID, Seed Name, Construct, Constructor, Line, Generation, Date, Species, Marker Gene, Ecology/Variety, Reference, and Passport ID.

Seed ID	Seed Name	Construct	Constructor	Line	Generation	Date	Species	Marker Gene	Ecology/Variety	Reference	Passport ID
4226	test tray 1 seed 1 plant 2		Wanda Wong			2022-09-13					
4228	test tray 1 seed 1 plant 1		Wanda Wong			2022-10-21					

For more details on seeds management, [see chapter 5.3](#).

### 3-5. "Import" menu

The "Import" menu can be accessed through the Data menu, as shown on the screenshot below.



From this menu, users can import seeds lists and create seeds records. You have to organize your file as indicated.

**IMPORT**

Choose a data format:

DATE <sep> PLANT FEMALE <sep> SEED <sep> (optional: PHENOTYPE <sep> ... ) <linefeed>

DATE <sep> PLANT MALE <sep> SEED <sep> (optional: PHENOTYPES <sep> ... ) <linefeed>

DATE <sep> PLANT FEMALE <sep> PLANT MALE <sep> SEED <sep> (optional: PHENOTYPES <sep> ... ) <linefeed>

Select field separator:  TAB  Comma (,)  Semicolon (;)  Custom separator

Select data to import:

Update Plant harvest date?

Your file has to be in a **text format** (.txt).  
Phenotype = parental plant phenotype.

Users can also use this function to update plants harvest dates.

Finally, the import function can be combined with a mobile harvest method, [see chapter 7](#) for more details.

### 3-6. “Massive” menu

The other menu found on the Data list, is the “Massive” menu. Here, users can perform a massive deletion of their data, based on the selected type: tray, plant or seed. Users should also specify the range of data they wish to delete by inputting the corresponding range of ID numbers.

**MASSIVE DELETION**

Select data type to delete  to ID

Select data type to delete

- Tray
- Plant
- Seed

## 4- TRAYS

From the Tray menu, users can create and manage trays.

### 4-1. Create trays

Click on **New Record** button. A form will be displayed.

ADD TRAY Select master tray -- Select master --

Tray Name:

Tray type: -- Select Type --

Researcher: Wanda Wong

Date:

Removal Date:

Comments:

Purpose: test purpose

Location:

Plant Limit: 20  Exact  Approximate

Aracons:  Yes  No

Disposed:  Yes  No

Sown By:

Soil\_Type:

Generate plants to fill up this tray ?

Parent Seed ID:  [\[View Seeds\]](#)

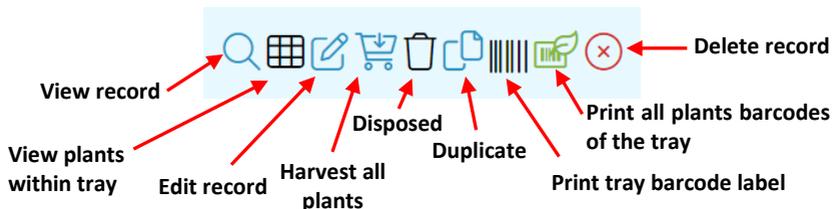
Associated barcode:

(\*) Required fields

Tray purpose, location and limit have to be previously defined ([see chapter 3-1-1](#)). You can choose the “Generate plants to fill up this tray” option. This choice will open the “Parent Seed ID” field in which you can choose the seed with which you want to complete the tray.

### 4-2. Trays management

From the trays list, users can execute different actions to manage their trays.



### 4-2-1. View tray record

With this function, users can visualize tray characteristics, visualize tray plants, harvest plants, print tray label and print tray plants labels.

Shows Tray Plants Harvest Plants Print Tray Label Print Plants Labels

**VIEW TRAY - ID: 23**

Tray Name: Master tray 1  
 Researcher: Stepan Khomenko  
 Date: 2020-09-28  
 Removal Date: 2020-10-30  
 Comments:  
 Purpose: test purpose  
 Plant Limit: 600  
 Location: Green House 42  
 Aracons: No  
 Disposed: No  
 Sown By:  
 Associated barcode:  
 Soil\_Type:

43/PTR 2608/PPL

Close this window

Opens Plants Interface

### 4-2-2. Edit tray record

With this function, users can edit/modify tray characteristics, visualize tray plants, harvest plants, print tray label and print tray plants labels.

Shows Tray Plants Harvest Plants Print Tray Label Print Plants Labels

**EDIT TRAY - ID: 21**

Tray Name: tray33  
 Tray type: Parcel  
 Researcher: Wanda Wong  
 Date: 2019-02-19  
 Removal Date:  
 Comments:  
 Purpose: test purpose  
 Location: Green House 42  
 Plant Limit: Exact Approximate  
 Aracons: Yes No  
 Disposed: Yes No  
 Sown By:  
 Soil\_Type:  
 Associated barcode:

21/PTR 2004/PPL

Save

(\*) Required fields

Opens Plants Interface

## 5- SEEDS

From the Seeds menu, users can create and manage trays.

### 5-1. Create seeds

Click on **New Record** button. A form will be displayed.

ADD SEED

Seed Name:

Construct:

Constructor:

Line:

Segregation Ratio:

Comments:

Generation:

Date:

Harvest By:

Species:

Marker Gene:

Other Gene Carried:

Ecotype/Variety:

Reference:

Female Plant ID:

Male Plant ID:

Plasmid ID:

Associated barcode:

Seed\_Length:

---

Select Storage Place:  (?)  
(Locate empty places)

Select Box:

Position in Box:

Storage Comments:

(\*) Required fields

Users can add storage locations to their seeds. Seeds storage system is integrated in LabCollector storage browser system (for details on LabCollector storage system management, see LabCollector user guide chapter 6).

### 5-2. Update seeds labels

With this function, users can quickly update seeds labels. They have just to organize their file as indicated.

## UPDATE SEEDS LABELS

Data format: SEED <sep> NEW ASSOCIATE BARCODE <sep> <linefeed>

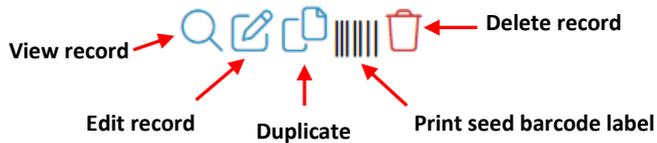
Select field separator:  TAB  Comma (,)  Semicolon (;)  Custom separator

Select data to import:

Your file has to be in a **text format** (.txt).

### 5-3. Seeds management

From the trays list, users can execute different actions to manage their trays.



#### 5-3-1. View seed record

With this function, users can visualize all the information which are related to a seed.

→ Same as the Female Plant

**VIEW SEED - ID: 4230**

Seed Name: test tray 1 seed 1 plant 2  
 Construct:  
 Constructor: Wanda Wong  
 Line:  
 Segregation Ratio:  
 Comments:  
 Generation:  
 Date: 2023-06-13  
 Harvest By: Wanda Wong  
 Species:  
 Marker Gene:  
 Other Gene Carried:  
 Ecotype/Variety:  
 Reference:  
 Female Plant ID: 44 - 1  
 Male Plant ID: 44 - 1  
 Plasmid ID:  
 Associated barcode:  
 Seed\_Length:  
 Currently stored in: No storage defined.

N=1

Seed ID: 4230  
 Seed Name: test tray 1 seed 1  
 Female Plant ID:  
 Male Plant ID:  
 Associated barcode:

No Female Plant    No Male Plant       

N=1

Plant Name: test tray 1 seed 1 plant 2  
 Tray ID: 04  
 Seed ID: 4232  
 Plant ID (cuttings):  
 Tray Position: 1  
 Researcher: Wanda Wong  
 Date: 2023-10-14  
 Comments:  
 Harvest Date: 2023-06-13  
 Ecotype:  
 Data Link:  
 Associated barcode:  
 Phenotypes:  
 color:  
 characteristics:  
 origin:  
 testID:

Close this window

N=1

Seed ID: 4230  
 Seed Name: test tray 1 seed 1 plant 2  
 Associated barcode:

Information related to the parental female plant

Close this window

### 5-3-2. Edit seed record

With this function, users can edit/modify seeds information and corresponding male and female plants data.

Same as the female plant

EDIT SEED - ID: 4230

Show Female Plant Show Male Plant

Seed Name: test tray 1 seed 1 plant 2

Construct:

Constructor: Wanda Wong

Line:

Segregation Ratio:

Comments:

Generation:

Date: 2023-05-13

Harvest By: Wanda Wong

Species:

Marker Gene:

Other Gene Carried:

Ecotype/Variety:

Reference:

Female Plant ID: 2607

Male Plant ID: 2607

Plasmid ID:

Associated barcode:

Seed Length:

Currently stored in: No storage default.

CHANGE STORAGE PLACE TO:

Select Storage Place:  (Locate empty places)

Select Box:

Position in Box:

Save

EDIT PLANT - ID: 3667 (PID: 44 - 1)

Show Seed No Female Plant No Male Plant Print Plant Label

Plant Name: test tray 1 seed 1 plant 2

Tray ID: 44

Seed ID: 4230

Plant ID (outings):

Tray Position: 1

Researcher: Wanda Wong

Date: 2023-05-14

Harvest Date: 2023-05-13

Phenotype:  WT  BT  HT  LS

Comments:

Ecotype:

Data Link:

Associated barcode:

color:

characteristics:

origin:

seedID:

Save

Required fields

## 6- PLANTS

From the Plants menu, users can create and manage plants. They can also directly registered derivate samples in LabCollector Samples module.

### 6-1. Create plants

Click on **New Record** button. A form will be displayed.

**ADD PLANT**

Plant Name:  \*

Tray ID:  \* [View Trays]

Seed ID:  \* [View Seeds]

Plant ID (cuttings):  [View Plants]

Plant number:  \*

Tray Position:  \*

Researcher:  \*

Date:  \*

Harvest Date:

Phenotypes:  MT  BT  WT  15

Comments:

Ecotype:

Data Link:

Associated barcode:

color:

characteristics:

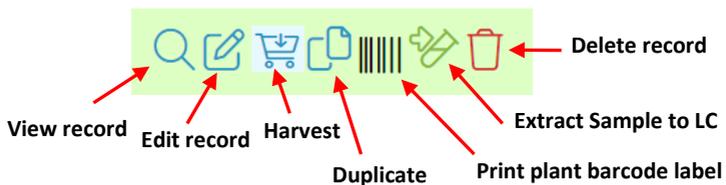
origin:

test123:

Custom fields  
(See chapter 3-1-3)

### 6-2. Plants management

From the plants list, users can execute different actions to manage their plants.



### 6-2-1. View plant record

With this function, users can visualize all the information which are related to a plant.

**Information related to the male and female parental plants**

**Only if plants were harvested (new seed creation)**

### 6-2-2. Edit plant record

With this function, users can edit/modify plant information as well as corresponding seeds and male and female plants data.

**Information on the related seed**

**Information related to the male and female parental plants**

### 6-2-3. Create samples records

Using the **Extract Sample to LC** button , users can directly create a sample record. This new record will be registered in **LabCollector Samples module**. For more details on LabCollector Samples module, you can consult LabCollector user guide.

## 7- PLANTS MANAGER AND SAMPLE TO BOX

**L**abCollector **Plants Manager add-on** can be combined with the **Sample to box add-on**. Just scan a seed barcode to automatically create a seed record (in the Plants Manager add-on) and attribute a storage location to this seed.

Sample to box add-on proposes 3 different modes.

### 7-1. Select an existing box

Select Box

Select your box:

by name

or barcode

Choose your filling orientation:

Horizontal:  Vertical:

- 1- Select the box: box name (autocomplete) or box barcode.
- 2- Choose the filling orientation: horizontal or vertical.
- 3- Click on **Validate** button.
- 4- Scan label.
- 5- Choose the data module, in this case: Plants Manager.
- 6- Click on **Update** button. New seeds records are created!

Scan your label:

A1 1234 Name:

A2 5678 Name:

	1	2	3	4	5	6	7	8	9	10
A	1234 01	5678 02	03	04	05	06	07	08	09	10
B	01	02	03	04	05	06	07	08	09	10
C	01	02	03	04	05	06	07	08	09	10
D	01	02	03	04	05	06	07	08	09	10

Box/plate name/ID: box 3 (ID: 18 )

Storage location: battiment 1 -> congel 1b

Drawer: RACK C / Position:

Box/plate type: box

Box/plate general description:

Owner: julien

Choose the Data Module: Plants Manager (Seeds)

Sample type for all: Select the type (only for Samples module)

## 7-2. Choose a box model

**Choose a Box Model:**

Choose your box model:

Choose your filling orientation:  
 Horizontal:  Vertical:

- 1- Choose a box model.
- 2- Choose the filling orientation: horizontal or vertical.
- 3- Click on **Validate** button.
- 4- Scan label.
- 5- Choose the data module, in this case: Plants Manager.
- 6- Enter a box name.
- 7- Select a storage location, a drawer, a position and a box type.
- 8- This new box can be personal or common.
- 9- Click on **Update** button. New seeds records are created!

Scan your label:

A1	1234	Name:	<input type="text"/>
A2	5678	Name:	<input type="text"/>

	1	2	3	4	5	6	7	8	9	10
A	1234 41 1	5678 42 2	43 3	44	45	46	47	48	49	410 10
B	51	52	53	54	55	56	57	58	59	510
C	61	62	63	64	65	66	67	68	69	610
D	71	72	73	74	75	76	77	78	79	710

Choose the Data Module:

Sample type for all:  (only for Samples module)

Box/plate name/ID:  (Box name. You can read the rack/box barcode)

Storage location:

Drawer:  Position in drawer:

(only available drawers and drawers with empty places are shown.)

Box/plate type:

Box/plate general description:

Owner:   Common box

or

### 7-3. Create your own box model

#### Create your own Box Model:

Enter the number of row and columns:

Row x  columns (  well)

Choose your filling orientation:

Horizontal:  Vertical:

**Validate**

- 1- Create your box: number of rows and columns.
- 2- Choose the filling orientation: horizontal or vertical.
- 3- Click on **Validate** button.
- 4- Scan label.
- 5- Choose the data module, in this case: Plants Manager.
- 6- Enter a box name.
- 7- Select a storage location, a drawer, a position and a box type.
- 8- This new box can be personal or common.
- 9- Click on **Update** button. New seeds records are created!

Scan your label:

A1  Name:

A2  Name:

	1	2	3	4	5	6	7	8	9	10
A	1234	5678	X							
B	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10
C	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10
D	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10

Choose the Data Module:  (only for Samples module)

Sample type for all:  (Box name. You can read the rack/box barcode into this field directly)

Box/plate name/ID:

Storage location:

Drawer:

(only available drawers and drawers with empty places are shown.)

Box/plate type:

Box/plate general description:

Owner:   Common box

**Save** or **Export Map to CSV**

## 8- UPGRADING AND UPDATING

To update or upgrade the **Plants Manager Add-on** module, just download it on our website ([www.labcollector.com](http://www.labcollector.com)). Then, unzip the folder and paste files in the following folder:

Programmes > AgileBio > LabCollector > www > LabCollector\* > Extra\_Module > plantsmanager

\*The name of this folder is the laboratory nickname chosen during LabCollector installation.



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