

LabCollector



User Guide For LabCollector Query Builder



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1- INTRODUCTION


Thank you for choosing one of AgileBio's solutions. We hope it will help you to expand LabCollector's data mining capabilities.

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This add-on is a visual database query builder to create custom data reports/exports, turning all data relations you created into reporting logic.

Users of LabCollector's **Query Builder add-on** can easily design any type of queries with filters allowing the extraction of part or all the LabCollector records registered in the different modules and in the Workflows add-on. These queries will follow records links created when entering data.

You can construct different types of queries for:

- **Normal links:**
Based on LabCollector generic links made with the **Add links** button  **Add links** (see LabCollector User's Guide chapter 8.7.1).
- **Custom links:**
Based on LabCollector links made with **Link to another record** custom field (see LabCollector User's Guide chapter 8.7.2).
- **Autocomplete links:**
Based on LabCollector links made with **Autocomplete on record name** custom fields (see LabCollector User's Guide chapter 5.1).
- **Name links:**
Based on LabCollector data with derivate names.
- **Single module:**
Dedicated to related records in the same LabCollector module.
- **Project code:**
Based on LabCollector data project code name/number.



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Queries can be saved for later reuse and regular reporting such as recurrent reports, stock inventories...

The generated reports can be exported in excel or pdf format.

2- INSTALLATION

You can get **Query Builder Add-on** simply by downloading it from www.labcollector.com. LabCollector software has to be installed first as it contains the framework. LabCollector support documents for installation are available on our website. **Query Builder Add-on** can be installed on any operating system (Windows, MacOS X and Linux).

Unzip and paste **Query Builder Add-on** Folder in the extra modules folder. For Windows it would look like:

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

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

Open or return to LabCollector, the **Query Builder 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 “License Setup”. To obtain a valid license, you have to copy and send the activation key to AgileBio.

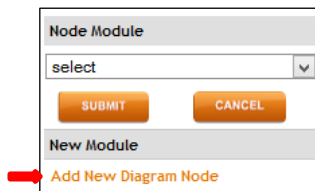
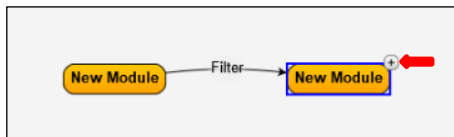
3- QUERIES

3-1. Designing queries

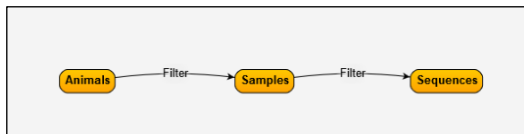
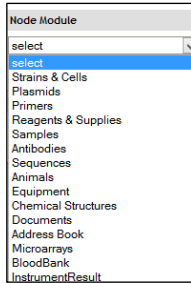
3

Constructing a query is always done in the same way, described step by step in the following lines.

- 1- Add modules for which you want to create your relational search. You have to click on “+” or “**Add New Diagram Node**” to add a new module.




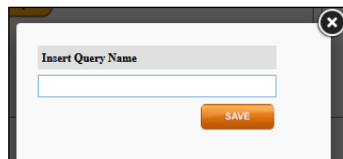
- 2- Modules appointment. You have to select the modules names in the “**Node Module**” select list. When your choice is made, click on the **Submit** button. The new module will update in the main relation panel.



3-2. Save queries


All the queries can be saved for later reuse and regular reporting such as recurrent reports, stock inventories...

To save a query you have to click on the **Save** button  and enter a query name.



3-3. Reuse queries

Saved queries can then be reloaded for new execution or editing.

To load a saved query: click on the **Load** button , select the query and load it.

Loaded queries can be edited and saved back as a new saved query variant.

4- FILTERS DEFINITION

When you create a query, you can define associated filters to specialize any search.

Filters definition:

- 1- Click on “filter”.



- 2- Select the field name and the search operator. You can then enter the value and submit your request.

Search operator:

Strict search:

- = exact value
- != different from the value
- > higher than the value
- < below the value
- => equal or below than the value
- <= equal or higher than the value


Broad search:

- LIKE '%... ' variable + value: search with variable prefix
- LIKE '...%' value + variable: search with variable suffix
- LIKE '%...%' variable + value + variable: search with variable prefix and suffix.

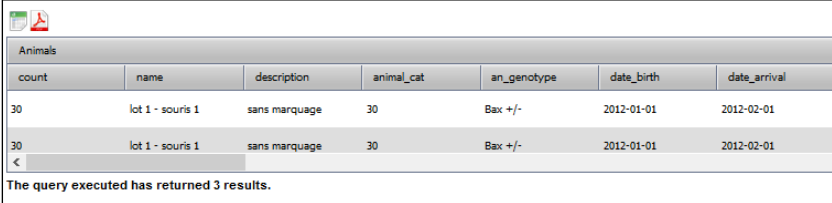
The screenshot shows a web interface for defining filters. On the left, there are two sections: 'Animals' and 'Samples'. Each section has a dropdown menu for selecting a field name (e.g., 'count') and a dropdown menu for selecting a search operator (e.g., '=', '>', '<', '>=', '<=', 'LIKE %... ', 'LIKE ...%', 'LIKE %...%'). Below these are 'SUBMIT' and 'CANCEL' buttons. On the right, there is a 'Current Filters' panel with a 'CLEAR' button and a text area displaying the generated SQL WHERE clause: 'WHERE animals.name=tot 1 - souris 1' AND samples.sample_type=1' AND samples.count=217'. Below this text area are 'SUBMIT' and 'CANCEL' buttons.

5- DATA REPORTS/EXPORTS

After query creation, you can execute it and export data reports in an excel or a pdf format.

To execute a query you have to click on the **Run** button . The query results will appear in a table you can export in excel and pdf formats.

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Animals						
count	name	description	animal_cat	an_genotype	date_birth	date_arrival
30	lot 1 - souris 1	sans marquage	30	Bax +/-	2012-01-01	2012-02-01
30	lot 1 - souris 1	sans marquage	30	Bax +/-	2012-01-01	2012-02-01
<						

The query executed has returned 3 results.

6- UPGRADING AND UPDATING

To update or upgrade the **Query Builder Add-on** module, just download it on our website (www.labcollector.com). Then, unzip the folder and paste files in the following folder:

Ex on Windows setup:

```
Programs\AgileBio\LabCollector\www\lab\extra_modules\query_builder
```



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