

QC Formula Tests

Using the *QC Formula Tests* screen, you can associate one or more QC tests with a formula. Here the measuring type, the target values, and the control limits for each of the tests associated with the formula can also be specified.

Additionally, it lets you print a Certificate of Analysis report for the formula.



If you want to print a Certificate of Analysis report for any Assembly batch item, it is mandatory to attach the QC test to the formula.

Go To: Quality Control → QC Masters → QC Formula Tests.

QC Formula Tests– Dashboard

You can manage and create QC Formula Tests from this dashboard. By default, the system displays all the existing QC Formula Tests as maintained for your business/company. You can click on any of the record to view its details.

Action	Formula Key	Formula Description
Copy	RM-0003	RM-0003

The *QC Formula Tests* dashboard contains many elements that occupy 100% of the browser window. Resizing the window would resize the elements to fit. The elements can be rearranged, i.e., docked, resized, grouped, and stacked. The header and the side panel can't be rearranged.

Using the *Action* button from the Dashboard you can:

- Copy an existing record

- Delete selected record

After you select all the columns of the *QC Formula Tests* dashboard, the middle grid displays the selected columns.

Action	Formula Key	Formula Description	Recuserid	Recdate
Copy	RM-0003	RM-0003	DEMO	09/13/19

The *QC Formula Tests* dashboard provides a clear vision of the created records in a read-only mode. You can view the records as per the number of pages provided per page.

QC Formula Tests – Add Mode

To add a new QC Formula Tests to your BatchMaster database, click on the + *Add QC Formula Tests* button. The system displays a *Formula Lookup* window for selecting a formula with which you wish to associate one or more tests. After selecting a formula from the lookup window, the system displays *QC Formula Tests* screen, where you can associate various tests on the selected formula.

QC Formula Tests

Formula Key: RM-0003 Formula Description: RM-0003

Add Line

Action	Test ID	Measuring	COA	Alphanumeric Value	Nominal Value	Lower Value	Upper Value
	PH	Q Pass/Fail Value	<input checked="" type="checkbox"/>		0.0000000	0.0000000	0.0000000

New Copy Save Delete Search Close

Header Fields:

Formula Key: This is the formula with which one or more quality control tests are associated.

Formula Description: This field displays the description of the formula key.

Grid Fields:

Test ID: Clicking the lookup provided next with the field, offers user the list of the QC tests defined in BME. Thus, this is the Test ID associated with the test selected at this row.

Measuring: This is the measurement type of the test-results, which can be selected via the drop down provided next to the field. The value of this field can be set to one of the following:

1. **Pass/Fail Value:** The result value of the test can be either Pass or Fail.
2. **Numeric Value:** The result value has to be a numeric value.
3. **Alphanumeric Value:** The result value can be alphanumeric.

COA: Mark the option to print the certificate of analysis report of this item.

Alphanumeric: The field gets activated as user have opted the alphanumeric measuring type for the Test ID. Therefore this field value is the Target value for a test of alphanumeric measuring type.

Nominal Value: The field gets activated as user have opted the Numeric measuring type. Therefore this field value is the Target value for a test of Numeric measuring type.

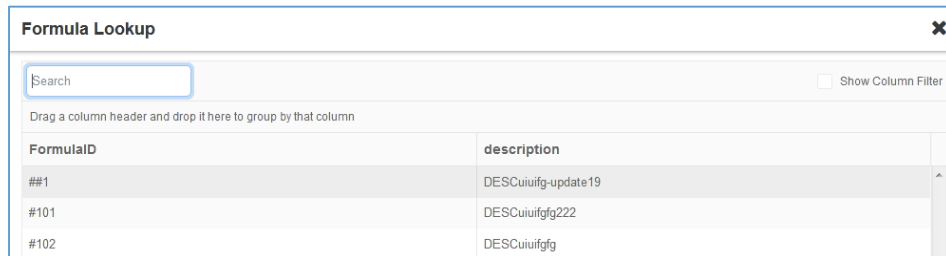
Lower Value: This is the lower control limit for a test of Numeric measuring type.

Upper Value: This is the upper control limit for a test of Numeric measuring type.

Add Line: Clicking this button inserts or appends a new line into the grid.

Creating a QC Formula Test

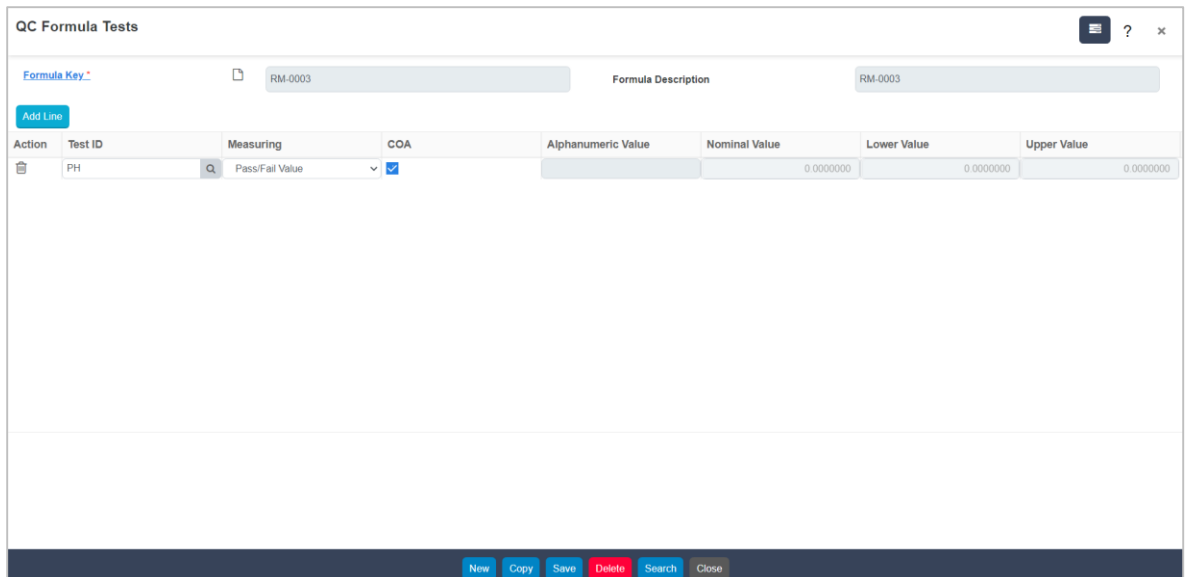
1. Open the *QC Formula Tests* dashboard.
2. Click on the *+ Add QC Formula Tests* button to open a *Formula Lookup* window.



The **Formula Lookup** window features a search bar at the top with the placeholder text "Search". To the right of the search bar is a checkbox labeled "Show Column Filter". Below the search bar is a text instruction: "Drag a column header and drop it here to group by that column". A table is displayed below the instruction with two columns: "FormulaID" and "description". The table contains three rows of data.

FormulaID	description
#1	DESCuiufg-update19
#101	DESCuiufg222
#102	DESCuiufgfg

3. Select a formula with which you need to associate QC Tests. The system defaults the selected formula in the header field.
4. Click the *Add Line* button to insert a line into the grid.



The **QC Formula Tests** dashboard includes a header section with a "Formula Key" field containing "RM-0003" and a "Formula Description" field also containing "RM-0003". Below the header is a blue "Add Line" button. The main area contains a table with the following columns: "Action", "Test ID", "Measuring", "COA", "Alphanumeric Value", "Nominal Value", "Lower Value", and "Upper Value". The first row of data shows "PH" in the "Test ID" column, "Pass/Fail Value" in the "Measuring" column, and a checked checkbox in the "COA" column. The "Alphanumeric Value", "Nominal Value", "Lower Value", and "Upper Value" columns all contain the value "0.0000000". At the bottom of the dashboard is a dark blue bar with buttons for "New", "Copy", "Save", "Delete", "Search", and "Close".

Action	Test ID	Measuring	COA	Alphanumeric Value	Nominal Value	Lower Value	Upper Value
	PH	Pass/Fail Value	<input checked="" type="checkbox"/>		0.0000000	0.0000000	0.0000000

5. Select a QC test at the *Test ID* field via the *QC Test Lookup* next to the field.

The image shows a 'QC Test Lookup' dialog box. It has a search bar at the top left and a 'Show Column Filter' checkbox at the top right. Below the search bar is a text prompt: 'Drag a column header and drop it here to group by that column'. The main area contains a table with two columns: 'Test_Id' and 'Description'. The table lists several test entries. At the bottom of the dialog, there is a pagination bar showing '10' items per page and '1 - 7 of 7 items'.

Test_Id	Description
FINAL GRAVITY	FINAL GRAVITY
ORIGINAL GRAVITY	ORIGINAL GRAVITY....
QC001	QC001
QC002	QC002
QC003	QC003
TEST NEW	QC001
VICOSITY	Vicosity.....

6. Select an option at the *Measuring* field. The value of this field can be set to one of the following:
- Pass/Fail Value:** The result value of the test can be either Pass or Fail.
 - Numeric Value:** The result value has to be a numeric value.
 - Alphanumeric Value:** The result value can be alphanumeric.
7. Mark the *COA* option if you want to print the Certificate of Analysis report for the Formula.
8. For each row on the grid, enter the target test values.
- When the test highlighted on the grid is Numeric type, enter a value at the *Nominal* field.
 - Enter control limits at the *Lower Value* and *Upper Value* fields for Numeric-type tests results.
 - When the test selected is *Alphanumeric* type, enter the target test value at the *Alphanumeric Value* field.
9. Click the *Save* button to save the *QC Formula Test* record. Once the record is saved, the system displays a confirmation message at the top of the screen.