

Adding Data Findings to a Characterization

To add findings to a characterization, you can add data directly to Data and Conditions by creating columns and adding data manually or you can import UTF-8 .csv (comma-separated value) files. Information can include laboratory conditions, pH, or temperature. You can add as many files as you wish.

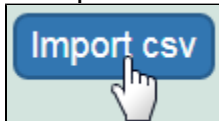
1. Add data values to Data and Conditions.
 - a. To import a file of data values:
 - i. Organize your data so that each column name is unique. The following table provides an example.

column_type:condition	condition	datum
column_name:Experiment	Formulation	(other):Size by DLS
value_type:	score	mean
value_unit:		nm
constant_value:0		
1	5	2
1	10	4
1	15	6
2	5	8
2	10	10
2	15	12

To add a value that is not currently in the system, such as a column name, insert "(other):" before the value.

The "value_type:", "value_unit:", and "constant_value:" rows are optional. In those rows, an empty cell is acceptable.

- ii. Save the spreadsheet of data values to a UTF-8 csv file (not just csv).
 - iii. Click **Import csv** and follow the prompts to add the data file to the Findings Info.



- iv. The columns and data are added to Data and Conditions.
 - b. To add the data values manually:
 - i. Specify the number of **columns** and **rows** for the matrix, and click **Update**.

Finding Info

Data and Conditions

2 columns 3 rows

Update

- ii. Add the data values to the rows.

Whether you imported or added information manually, you can preface each data value with one of the following: Maintain the default, equal to (=), greater than (>), less than (<), or approximate (~).

Constant Value

For boolean column value type, please enter 1 for true, 0 for false

Remove

Save

Cancel

>

23.0

>

23.0

>

23.0

Delete

~

12.0

~

12.0

=

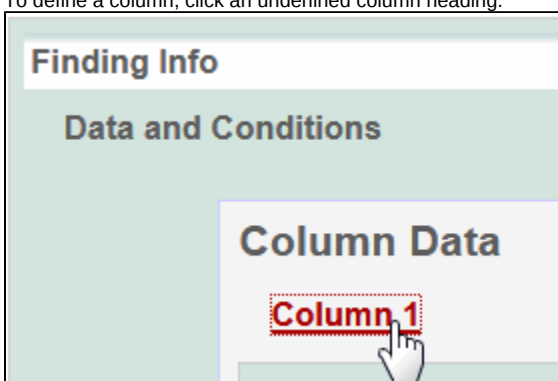
12.0

Delete

Files

Add

2. To define a column, click an underlined column heading.



The Column Definition panel appears.

A screenshot of a 'Column Definitions' panel. It has several input fields and a dropdown menu. The 'Column Type' field has a dropdown menu open, showing 'datum' (selected) and 'condition'. The 'Column Name' field has a dropdown menu open, showing 'datum' (selected) and 'condition'. The 'Column Value Type' field has a dropdown menu. The 'Column Value Unit' field has a dropdown menu. The 'Constant Value' field is a text input box. Below the fields are three buttons: 'Reset' (red), 'Save' (blue), and 'Cancel' (white). A note at the bottom says: 'For boolean column value type, please enter 1 for true, 0 for false'.

3. Select a **Column Type**, Datum or Condition.
4. Select a **Column Name** or select **other** and add a new one.



Column Notes

You can add up to three cell viability Column Names, including **cell viability**, **cell viability B**, and **cell viability C**. You can further identify the column with the Column Value Type.

- a. For Column Type, **Datum**, the following characterization(s) display customized **Column Name** options.

Characterization Type	Column Type and Column Name Option(s)
Physico-Chemical	• Molecular – Molecular Weight • Purity – % purity for sample • Relaxivity – R1, R2, T1, T2 • Size – PD1, Peak N, RMS size, Z Average • Surface – charge, zeta potential
In Vitro	Enzyme Induction – % of Control
In Vivo	Click Other to name the column yourself.

- b. For Column Type, **Condition**, all characterizations provide the **Column Name** options in the left column of the following table. The Column Name auto-populates the **Condition Property** options in the right column.

Column Type, Condition Auto-populates Column Name	Column Name Auto-populates Condition Property
Centrifugation	N/A
Culture Media	media type, serum percentage
Electromagnetic Radiation	bandwidth, frequency, time, wavelength
Freeze Thaw	N/A
Long Term Storage	lyophilized, time
Lyophilization	time
pH	N/A
Sample concentration	N/A
Short Term Storage	lyophilized, time
Solvent Media	ion concentration, ionic strength, molecular formula, osmolality, serum percentage, with serum
Sonication	number of pulses, pulse duration
Temperature	N/A

5. To further identify a column, select a **Column Value Type**.



Once the column information is saved, the Column Type is shown in parentheses after the Column Name, such as **cell viability (mean)**.

6. Select a **Column Value Unit**, or select **other** and add one.
7. If you want the same value to fill all rows in a column, add a **Constant Value**.



For Column Value Type, boolean

For Column Value Type, **Boolean**, enter a Constant Value of 1 for true and 0 for false.

8. Click **Save**, and the column(s) are updated.



If needed, click **Set Column Order** to change the order of the column headings in the matrix.

9. Click **Save** in the Finding section.