

Technical Note

Advanced Topics for Tecan Magellan Software

QC VALIDATIONS

In an effort to make Magellan easier to use for customers, this is one in a series of technical notes on how to use the advanced features of this very powerful software package.

GENERAL COMMENTS

QC Validations can be used to quickly and easily test the validity of plate read results. An error message will be displayed to the software user if a set of pre-defined criteria is not met. These criteria can be set up in the form of a specific number value or formulaic calculations.

SETTING UP QC VALIDATION PARAMETERS

Input data can be chosen from the drop down menu. This data can consist of the Raw data or the numerical result of any previous Transformation.

The *Validation group* can be used to apply multiple sets of validation criteria to an *Experimental Group*. Up to 3 *Validation groups* can be used per *Experimental group*.

The *Validation Conditions* field is where the criteria for the QC of the read results are defined. In this example, an error message will be returned after the run if the Negative Control (NC) is not between 0 and 1 and the Positive Control (PC) is not greater than 100.

Validation Conditions	
1	NC1 > 0
2	NC1 <= 1
3	PC1 > 100
4	
5	
6	
7	
8	

Formula input

Variable: PC1 Operators: > Functions: abs{

The *Formula input* box contains the tools for selecting Variables (such as the Positive and Negative Controls), Operators, and Functions. These are basic Boolean logic tools, and work in the same way as the *Formula input* box in the *Transformation* window works.

FOR ADDITIONAL INFORMATION ON MAGELLAN

Please contact the Technical Support group at Phenix Research Products for additional information on this process, or to obtain information on other advanced Magellan topics.

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