

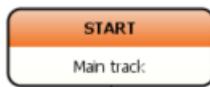
Adding an Average Blank or Titer Calculation - tiamo

This document guides you in creating a method to take the average of (n) number of runs, as in blank or titer determinations.

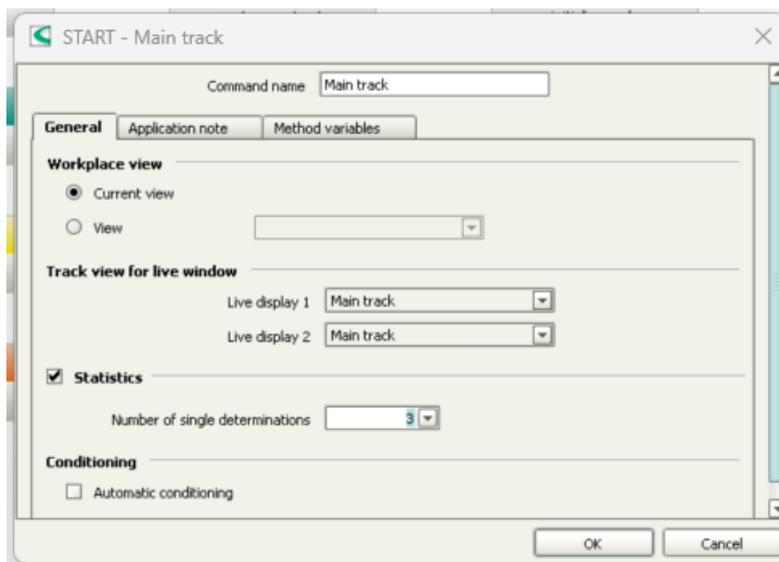
Technology: Titration

Procedure to Create

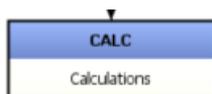
1. In tiamo, open your Titer or Blank method (Method > File > Open)
2. Double click on the 'START/Main track' command



3. Enable 'Statistics'
4. Set the 'Number of single determinations' you wish to average (minimum of 3 is recommended for most applications)

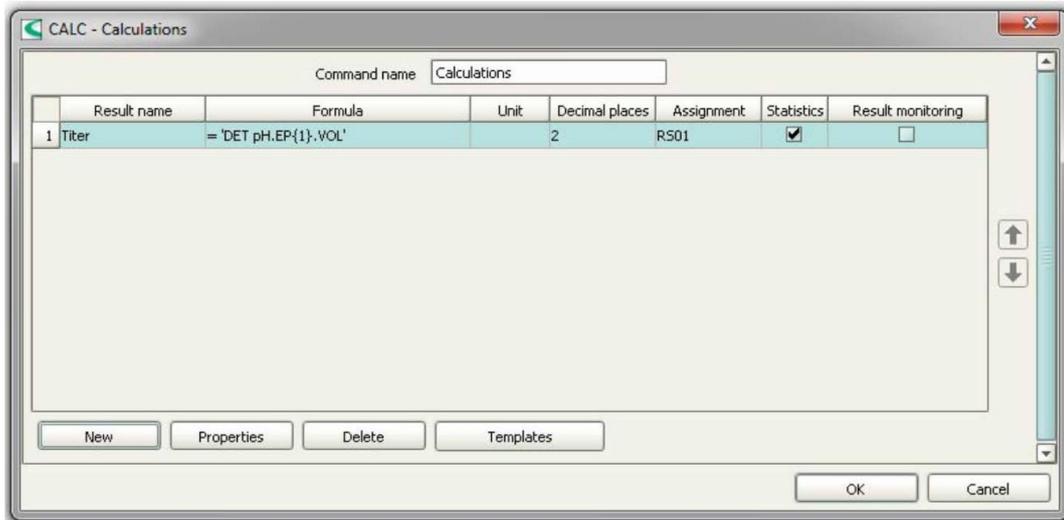


5. Click OK to exit
6. Double click on the 'CALC/Calculations' command

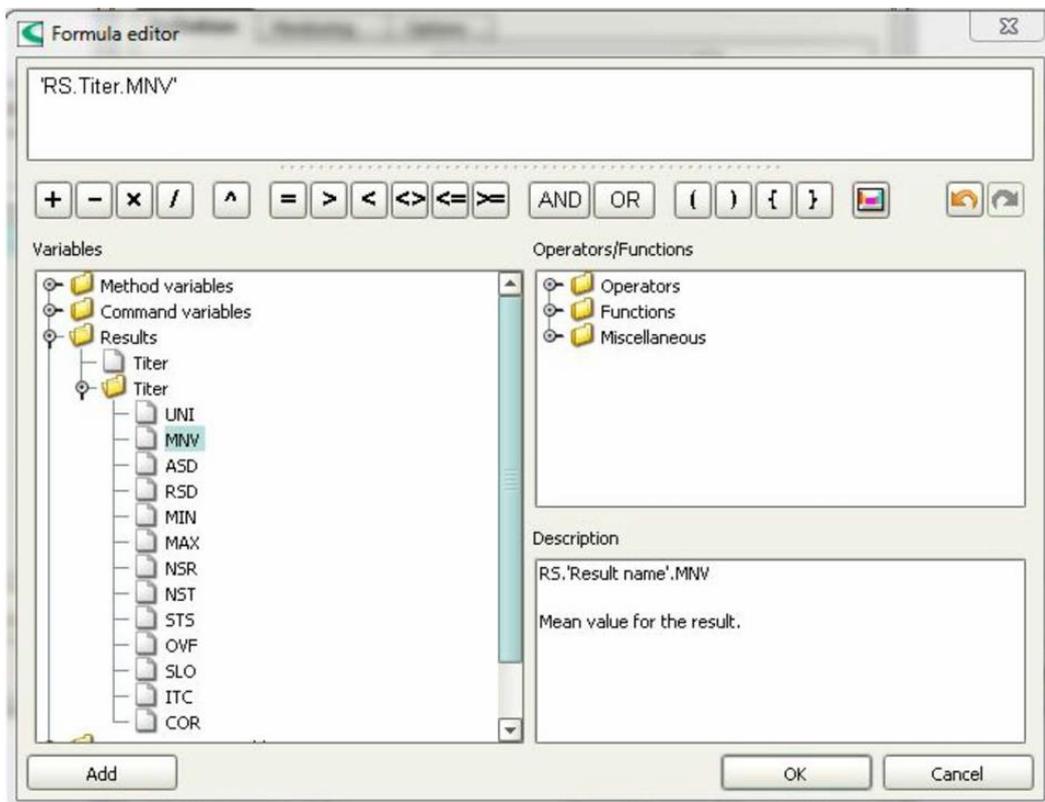


7. Ensure you have calculation programmed for the titer/blank value of a single run
 - a. Please note that the calculation for titer/blank shown here does not necessarily represent an actual titer/blank calculation.

- Double click on the Result name to ensure Statistics is enabled (shown by check mark under Statistics column here)



- Create a new calculation by clicking the New button as seen above
- Name your result something representative such as "Avg Titer" or "Avg Blank" (disable statistics for this calculation)
- Double click the formula editor
- Use the tree menu for variables to locate "Results" and expand this menu. Choose the folder for the name of your first result (in this case "Titer/blank" and choose the variable MNV and click add. The formula editor screen should resemble this:



13. Click OK to accept the changes
14. Click the 'Options' tab of the Avg Titer/Blank result
 - a. Here you can select the option "Save result as titer" or "Save result as common variable". If you choose "Save result as titer" you will be asked to choose a solution to save it for. Remember – your available solutions can be found under the Configuration Screen. This data will be written to the data chip of the associated dosing unit or exchange unit. If you do not have an intelligent dosing unit or exchange unit, OR the chip is defective, the best option is to save the result as a common variable. Before being able to choose this option you will have to create a Common Variable. To do this – go to the configuration screen, locate the common variables sub screen and click Edit > New.



Result New - RSXX

Definition Monitoring **Options**

Save result as common variable

Common variable AgNO3 Titer

Save result as titer

Solution name 0.1M Na2EDTA

Save result as global variable

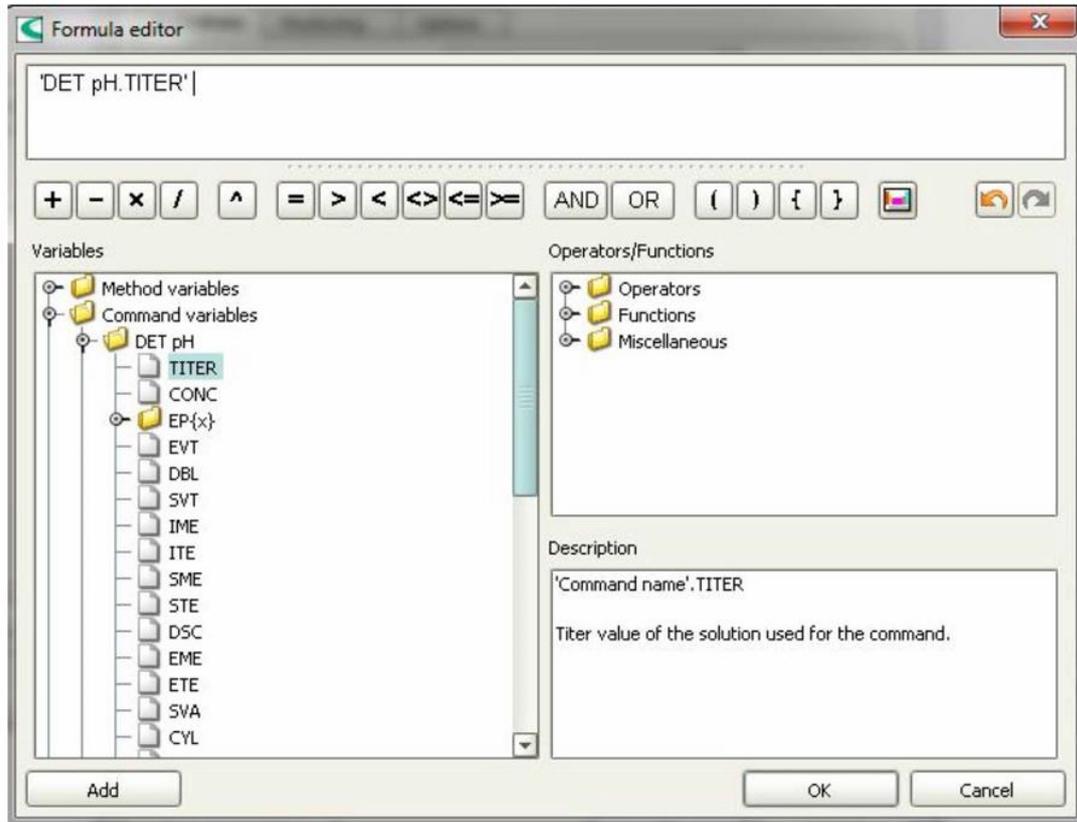
Globel variable

Save as template OK Cancel

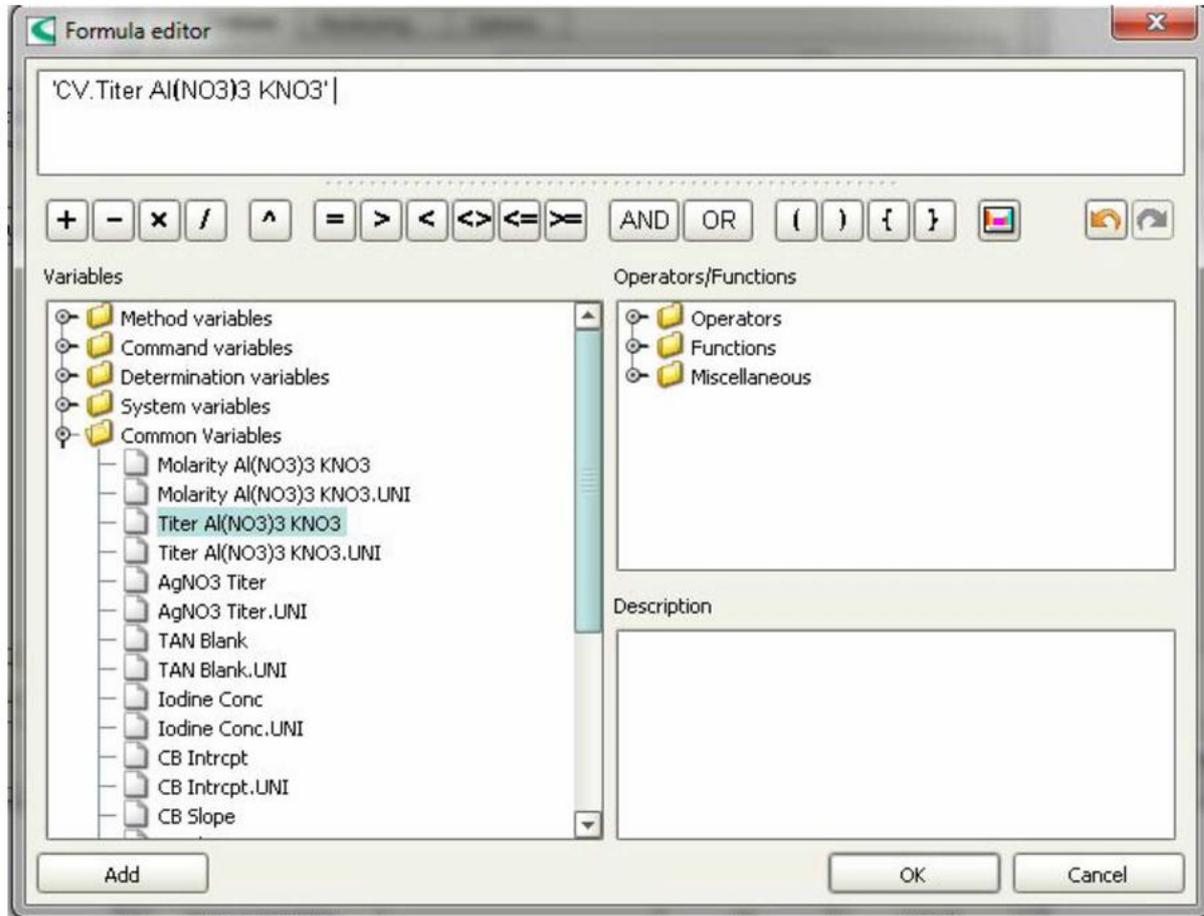
15. Click OK to save the new calculation
16. Save your method (File > Save)

Procedure to Use Titer/Common Variable as Part of a Calculation

- To add Titer value from the Solutions list, use the following variable in your formula editor:



- To add the titer/blank value from Common Variables, use the following in your formula editor:



Other Ideas

'Submit a request' for further assistance from Metrohm Technical Support at support.metrohmusa.com.