Metertech

Provide Accurate Results

Operational Manual

M965/965+ Reader

M965 Mate 2.0 USB

PC Software

Metertech Inc.

Version 2.10

Metertech

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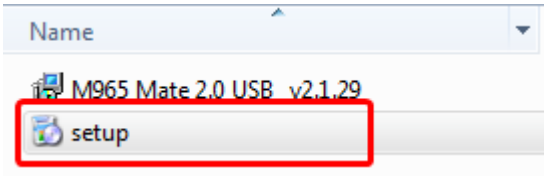
System Requirements

- CPU Pentium 4 2.0GHz above for Windows 7 or above.
- 2GB of RAM or above for Windows 7 or above.
- Microsoft .NET Framework 3.5
- 50MB of available hard drive for the program files
- CD ROM drive
- 16bit color display with pixel resolution 1280 x 768 or above.
- Keyboard, Mouse, and RS232 serial port or USB port

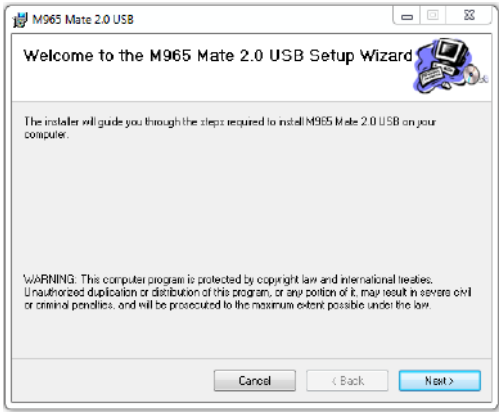
Software Installation

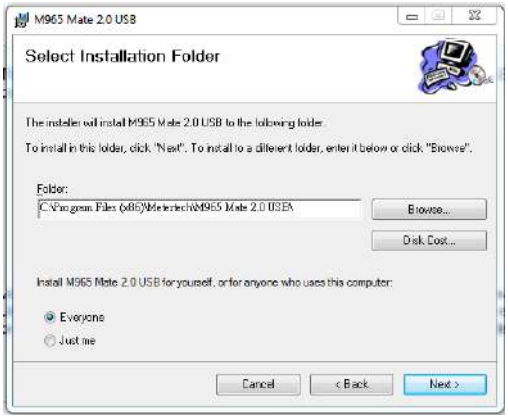
To install M965 Mate 2.0 USB

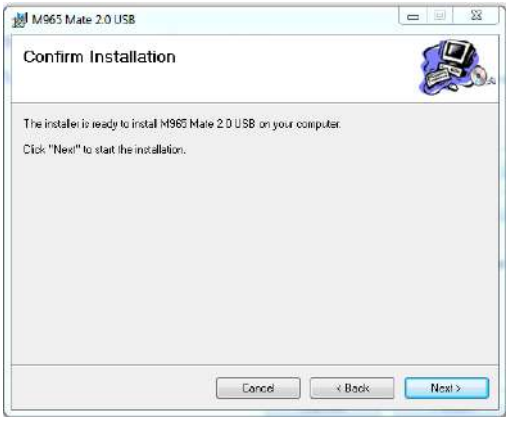
1. Start Windows and close all unnecessary Windows applications.
2. Insert the software CD into the CD-ROM drive. The installer user interface is displayed.
3. Click on the "setup" to install M965 Mate 2.0 USB software.



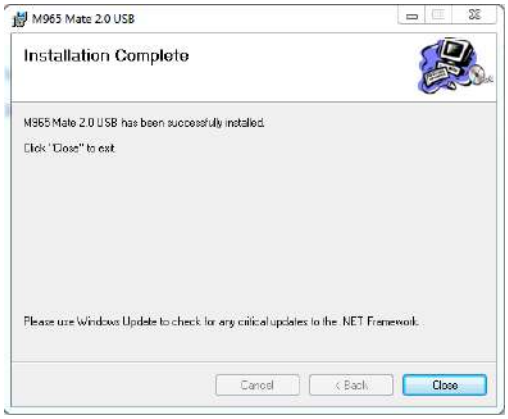
4. Follow the on-screen instruction.







5. After the installation is completed, click “Close”.



M965/965+ Instrument Setup

1. Be sure the M965/965+ instrument is in standalone mode.
   Method to switch between standalone and PC modes on M965/M965:
   Turn off the instrument first, then press the "OPTION" key while turn on the instrument again, it will switch to other mode.
2. On M965/965+ standalone mode, please go to SETUP / COMPUTER.
3. Move "UP/DOWN" buttons to select USB port and press "ENTER" to confirm selection with mark "S" shown on the right side of that port.
4. Power off and power on the M965/965+ again, then press the "OPTION" key while turn on the instrument, it will switch to PC mode.
5. The instrument starts to do initialization.
6. After initialized, be sure the screen show "pc_usb mode" as figure 1 below.

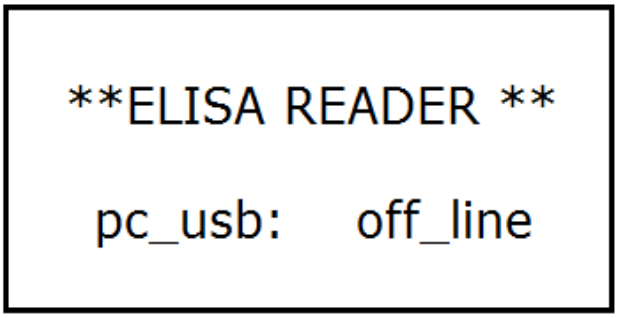


Figure 1

To Start M965 Mate 2.0 USB

Connect the PC and the instrument with an USB cable, then power meter up.

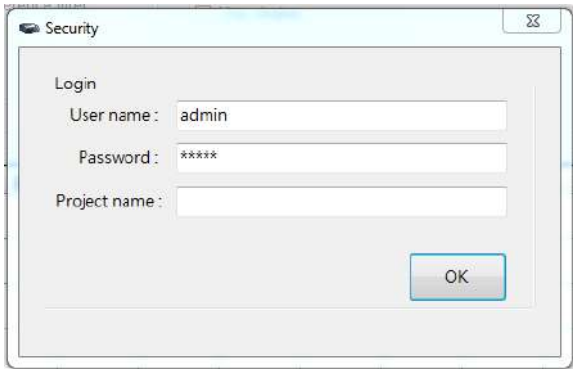
1. Go to M965 mate 2.0 USB

   From Start menu →All Programs→Metertech→M965 Mate 2.0 USB

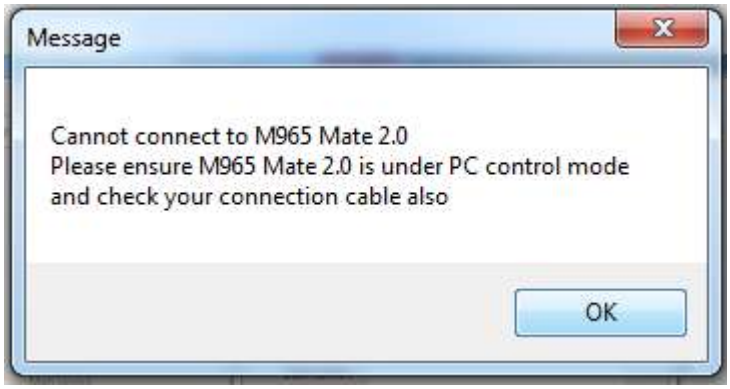
2. For the first time login, key in default value "admin" for both User name and Password in Security window below. Press "OK" to start comport connection.

   User name : **admin**

   Password : **admin**



3. If the computer appears the message as below, please shut off the M965 mate 2.0 USB software and restart it again, let the software reconnect the reader.



4. If PC softwaer is successfully connected to M965/965+, the "Connected" sign with green background will appear on the upper right message area of the screen.

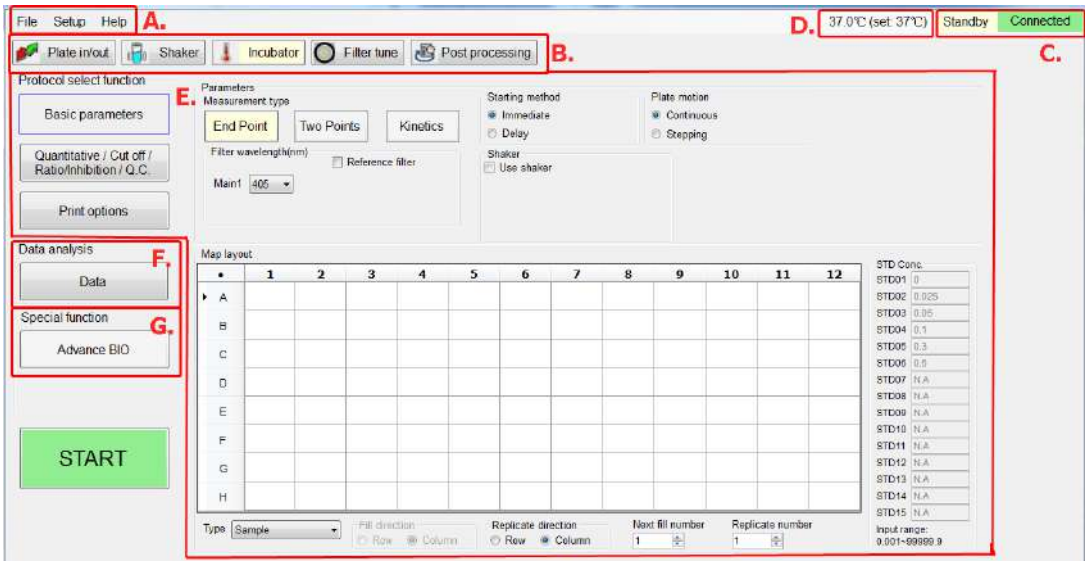
5. In case the PC software still cannot connect to the instrument, please shut off the PC software and the reader. Be sure the USB cable is plugged in and restart the PC software and Reader again to do the connection.

6. Now, the Reader and software are ready to perform the experiment.

M965 Mate 2.0 USB Menu Software Structure

Main Window Overview

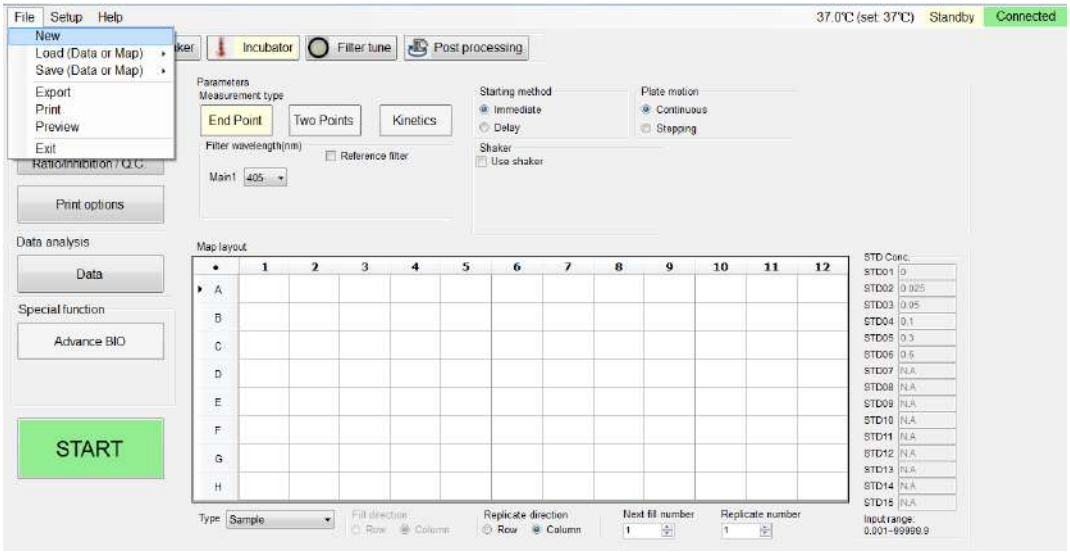
Section A: Menu
Section B: Tool bar
Section C: Message
Section D: Temperature monitor
Section E: Working area
Section F: Data review
Section G: Special function



Section A Menu

File Menu

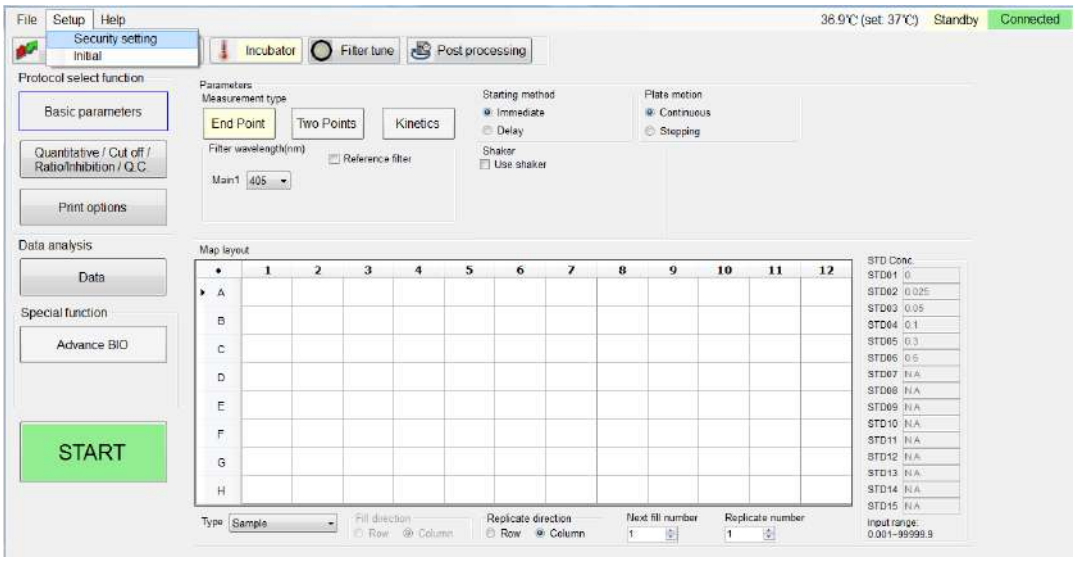
The File Menu contains the file and print functions for the experiment data and mapping file.



New: Create a new experiment
Load (Data or Map): Load a stored experiment, results or map layout
Save (Data or Map): Save the experiment parameters, results or map layout
Export: Export report to a file with ".csv" file extension
Print: Select experiment to print out
Preview: Preview experiment report format
Exit: Close the M965 Mate 2.0 USB software

Setup Menu

The setup menu contains the M965 Mate 2.0 USB system configuration and user account management.

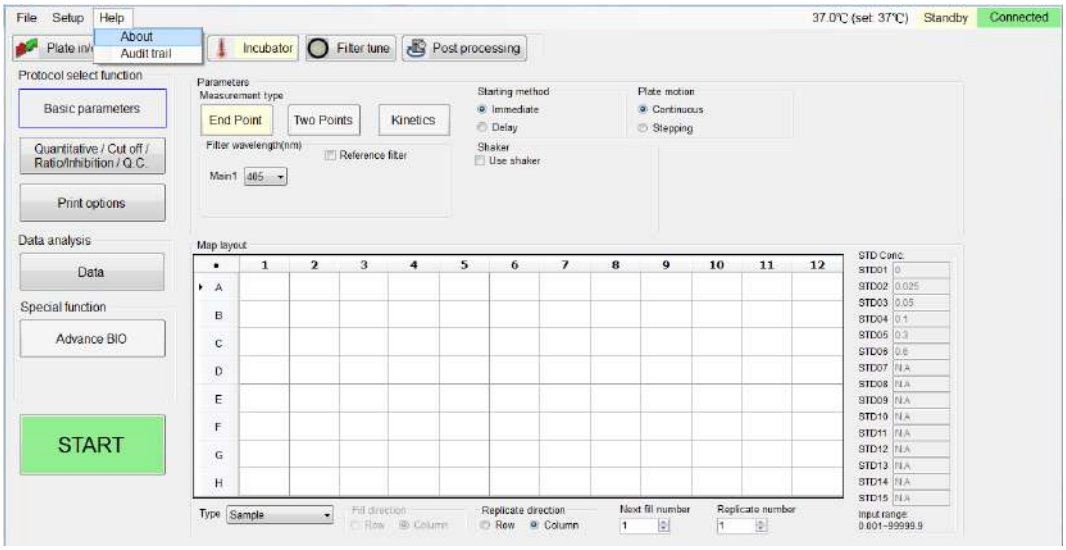


Security setting: To create a new user ID and set up the security level, or delete the user ID.

Initial: To initial reader and PC software, especially after the reader and the PC software are left for a while, or after re-start the software than to do re-connect.

Help Menu

The help menu provides information on software version, contact information of the



vender, and the user activity records.

About: To provide software version and contact information of the vender.

Audit trail: To record the user activity for trailing.

Section B Toolbar

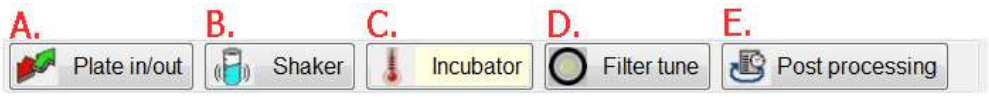


Plate in/out: To open or close the plate compartment

Shaker: To shake the plate with desired speed and shaking time

Incubator: To control the incubator with desired temperature, and display temperature reading on section D temperature monitor.

Filter tune: To set up the wavelengths of installed filters on 8-slot filter wheel, and have the meter tune the light intensity for each filter.

Post processing: Use the current protocol to re-process data results

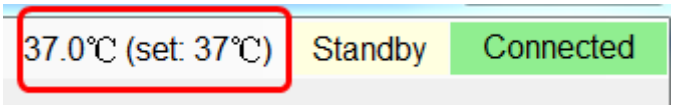
Start: To start the experiment with current protocol

Section C Message

During operation, the current status will be shown on the upper right of the screen.

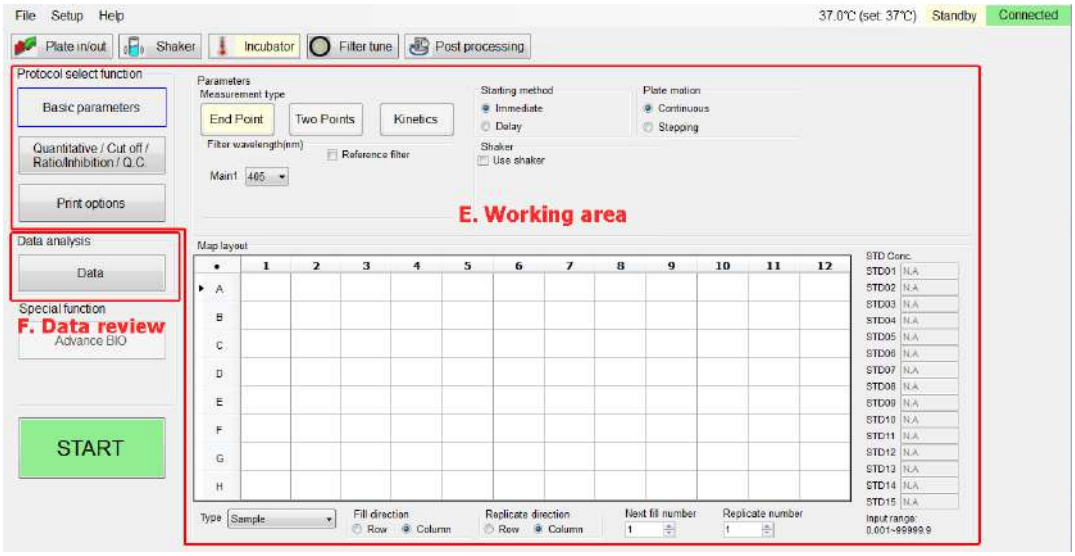
Section D Temperature monitor

When the incubator is activated, the set and actual temperatures are shown on the left of the message area.



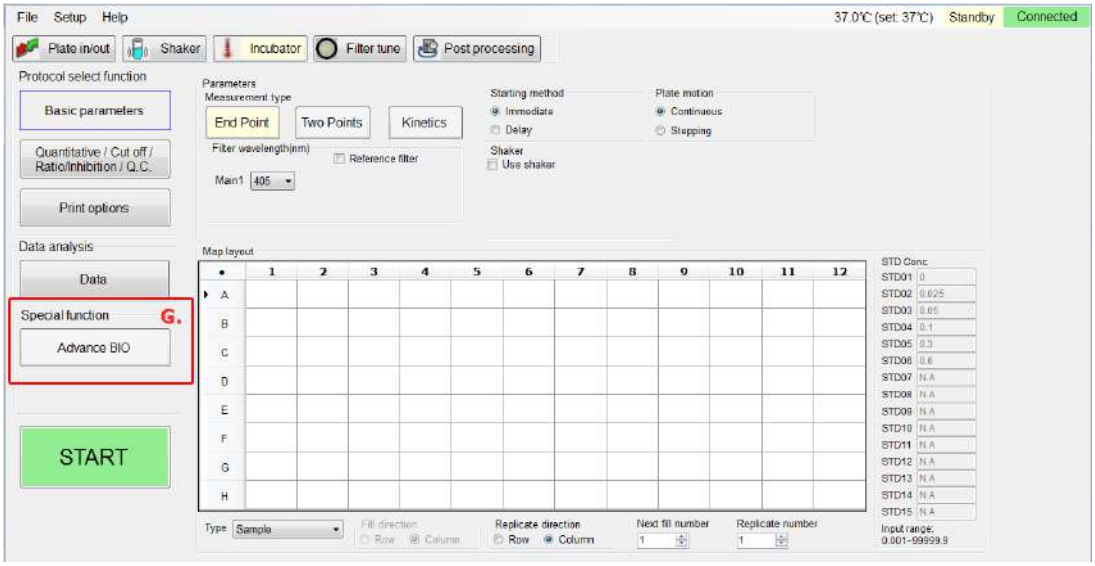
Section E Working area & F Data review

The M965 Mate 2.0 USB allows you to define measurement protocols and analyze obatined microplate data. The protocol parameters are input in E Working area, and the test data is shown in F Data review.



Section G Special function

The special function is customized for the Biotest reagent test. This experiment effects only in conjunction with the Biotest reagents.

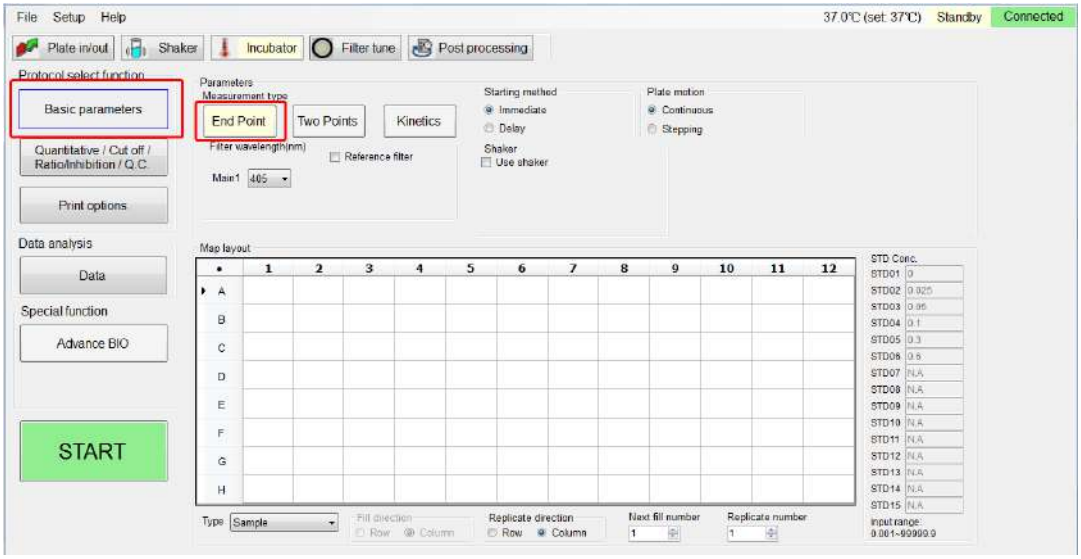


M965 Mate 2.0 USB Function

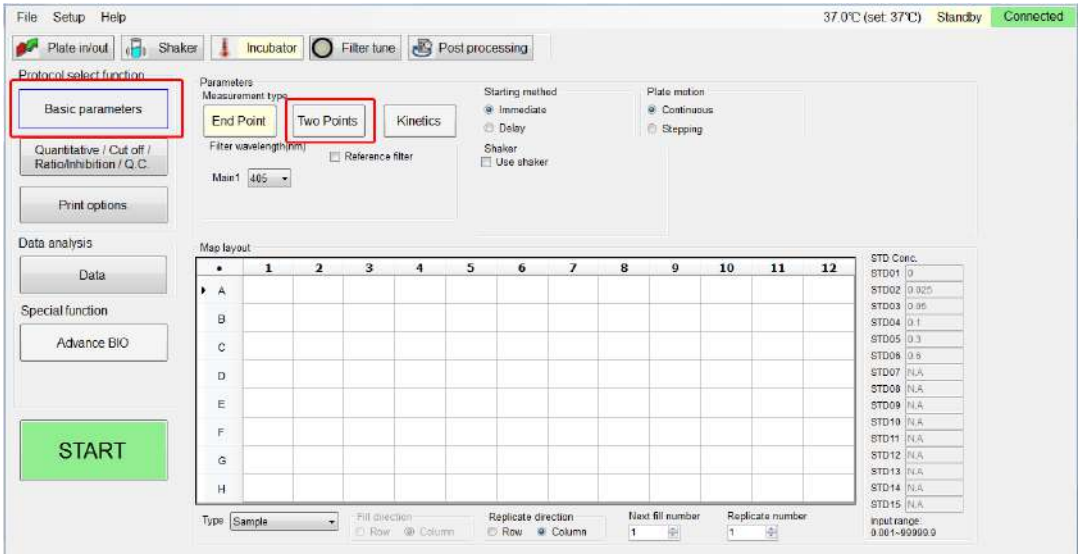
Basic Parameters

Measurement types: The M965 Mate 2.0 USB provides three types of measurement, i.e. End point, Two point, and Kinetic measurement.

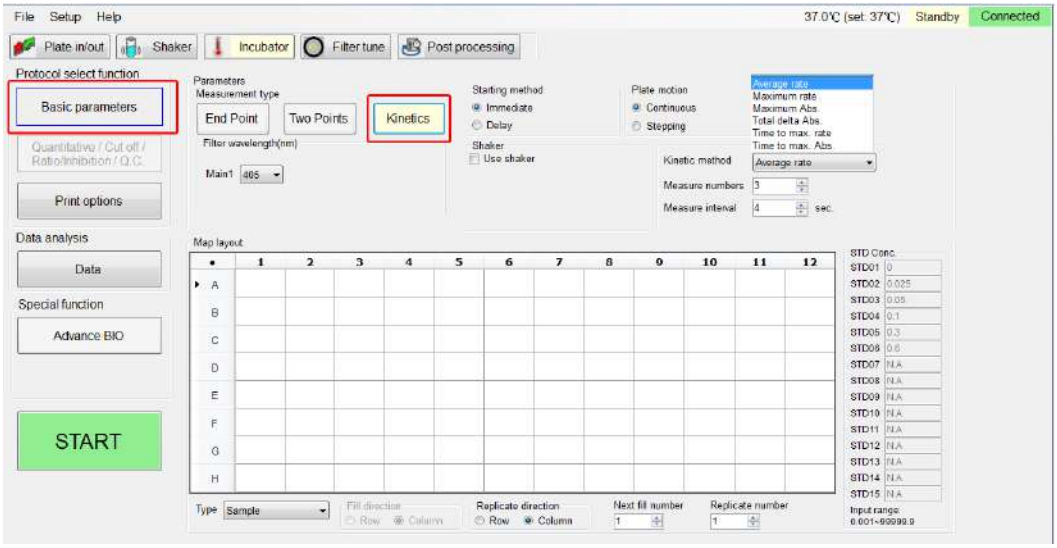
End point read: During the end point read, the M965/965+ reads at one wavelength, with one-reference wavelength read as optional



Two points read: During the two points read, the M965/965+ reads at two wavelengths, with two-reference wavelength read as optional.



Kinetics read: During the kinetics read, users can define the kinetic method by selecting Average rate, Maximum rate, Maximum Abs, Total delta Abs, Time to max rate, or Time to max Abs in the Kinetic method list. The user can also define the measure numbers and interval.



To Set up a measurement with End point, Two points or Kinetic method, user need to define following parameters.

Primary and Reference wavelengths

If a Primary wavelength is defined alone, the M965/965+ reads the plate only once at a single wavelength. If a Reference wavelength is defined, the plate will be read twice and automatically calculate the delta Abs between these two readings.
Method to set up the Primary and Reference wavelengths:

1. Select the Measurement type of End Point, or Two Points.
2. Enter the Primary wavelength in Main1 or Main2, and the reference Ref1 or Ref2

Starting method to read plates

If the "Immediate" option is selected, the instrument starts reading the plate right after the Start button is pressed. Users can also define the period of the plate reading delay.
To define the starting method,

1. Select the "Immediate" option.
2. Or choose “Delay”, then input the delay time in second.

Plate motion

Users can select the plate motion as stepping in milliseconds or continuous mode.

The built-in Incubator

The incubator will keep the plate stay at temperature-controlled environment.
Users can activate the incubator by

1. Clicking the incubator button on toolbar to display the incubator pop-up menu.
2. Entering the desired temperature on the pop-up menu, and press "Activate" tab to start the temperature control.

The built-in Shaker

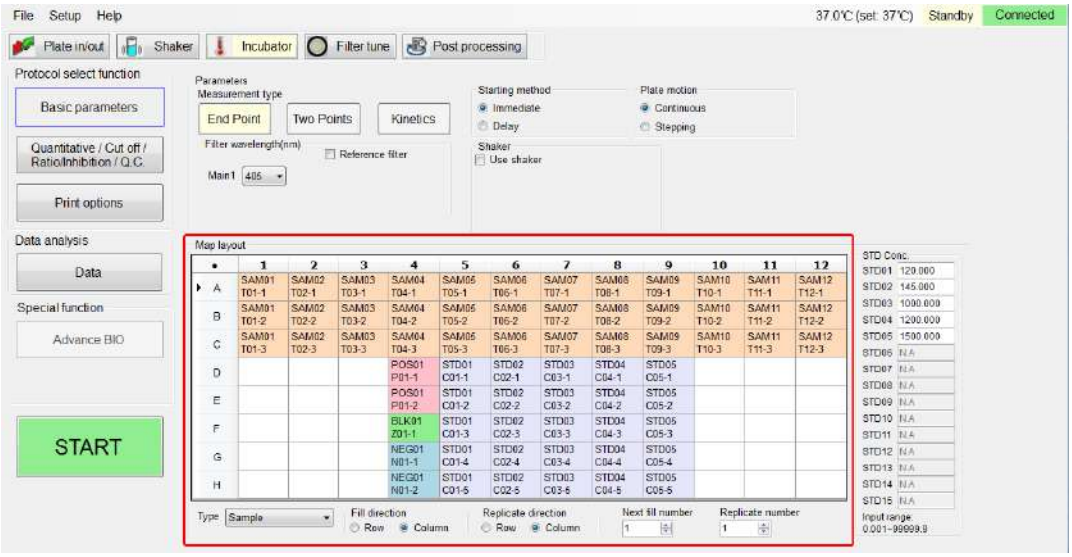
The built-in Shaker in the instrument allow user to define speed setting as Low 8Hz, Medium 11Hz, or High 14Hz. Users can also define the shaking period.
To enable the shaker,

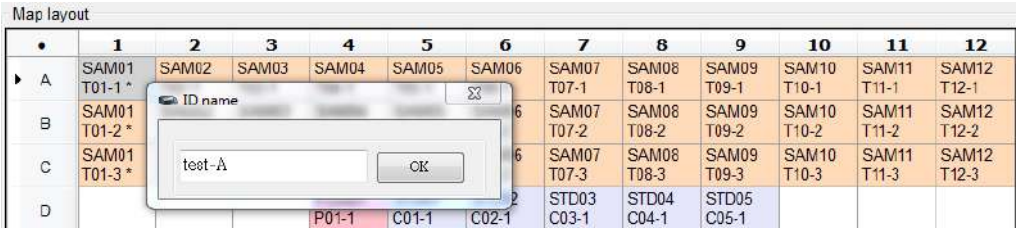
1. Click the shaker button
2. Select the speed to be Low, Medium or High
3. Define the shaking period in second.

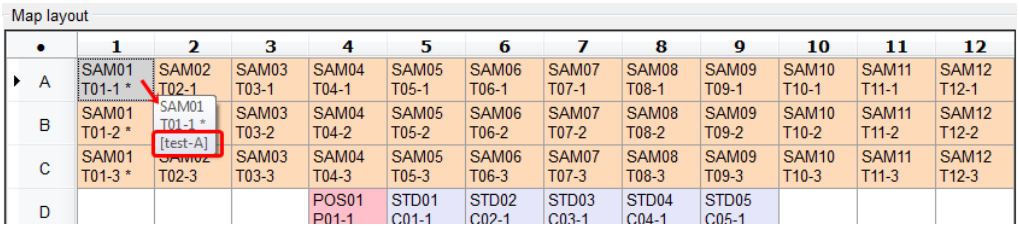
Well Mapping

Users can define five types of different wells. They are Blank, Standard, Sample, Positive, and Negative on the Type menu at Map layout.

Users can also define the sample well name at Map layout as required.





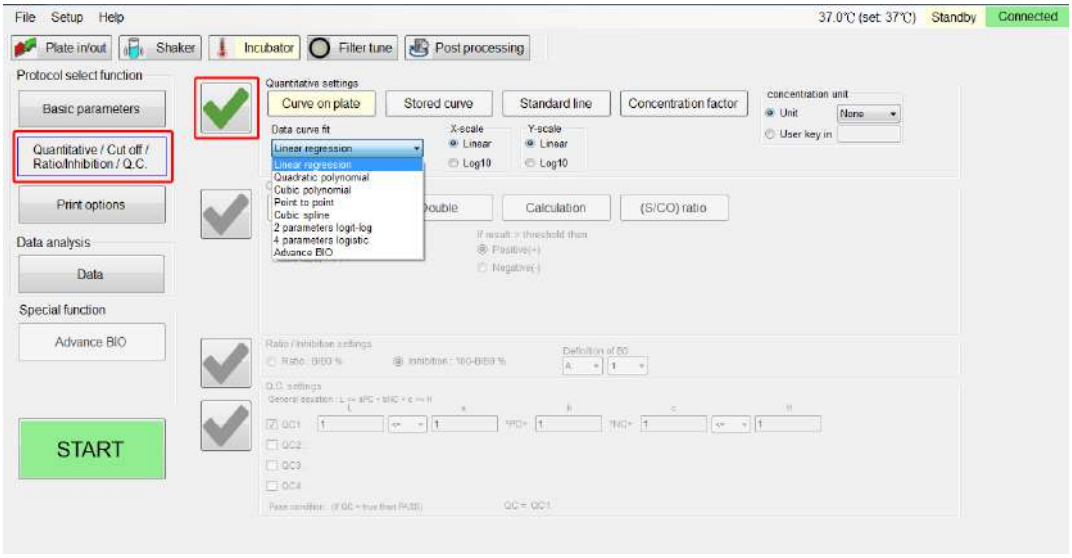


Quantitative / Cut off / Ratio / Inhibition / QC

Quantitative setting

The M965 Mate 2.0 USB allows user to define quantitative analysis to determine the sample concentration. Seven types of curve fitting equations are built to calculate standard polynomial coefficients. Users can select Curve on plate, Stored curve, Standard line, or Concentration factor to define Quantitative method.

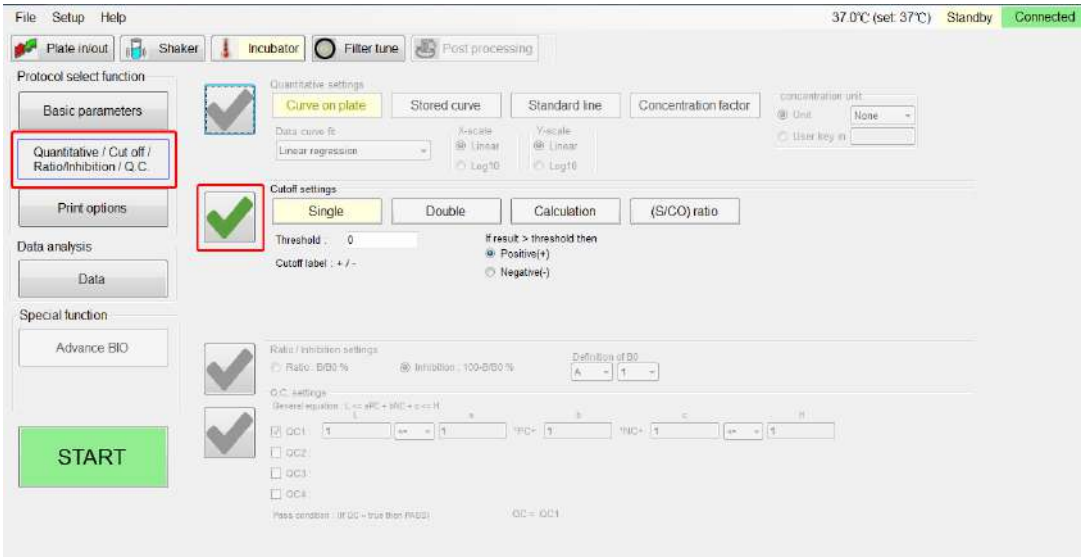
1. Click the Quantitative / Cut off / Ratio / Inhibition / QC button.
2. Click the check mark in front of the Quantitative settings area, and be sure the check mark turned into green.
3. Define the desired parameters.



Cutoffs

Cutoffs are used to classify results. Users can define three Cutoff methods as Single, Double, Calculation and S/CO ratio

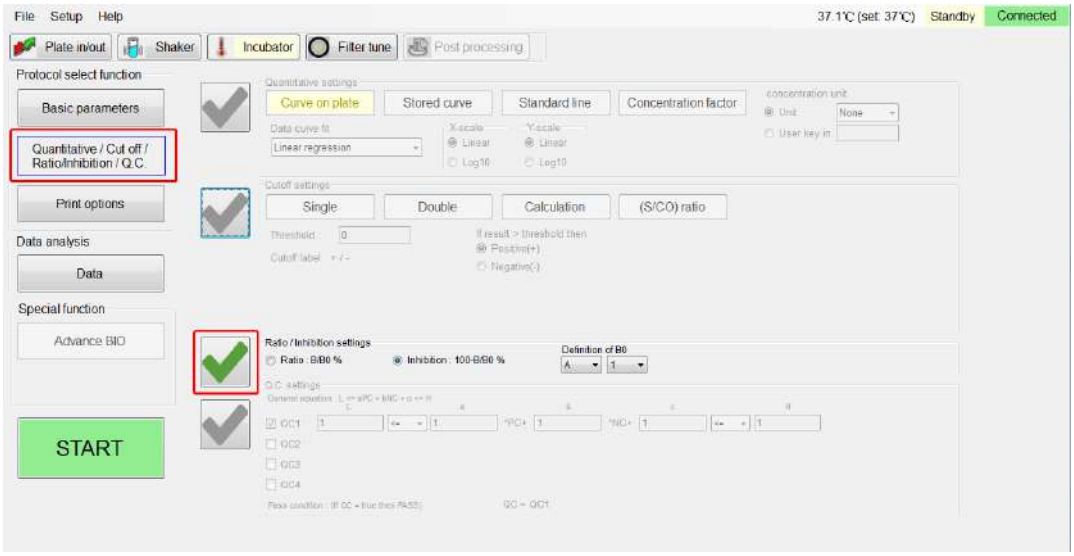
1. Click the Quantitative / Cut off / Ratio / Inhibition / QC button.
2. Click the check mark in front of the Cutoff settings area, and be sure the check mark turned to green.
3. Define the desired parameters.



Ratio/Inhibition

The M965 Mate 2.0 USB will take a reference (B0) and other samples (B) to calculate the Ratio/Inhibition

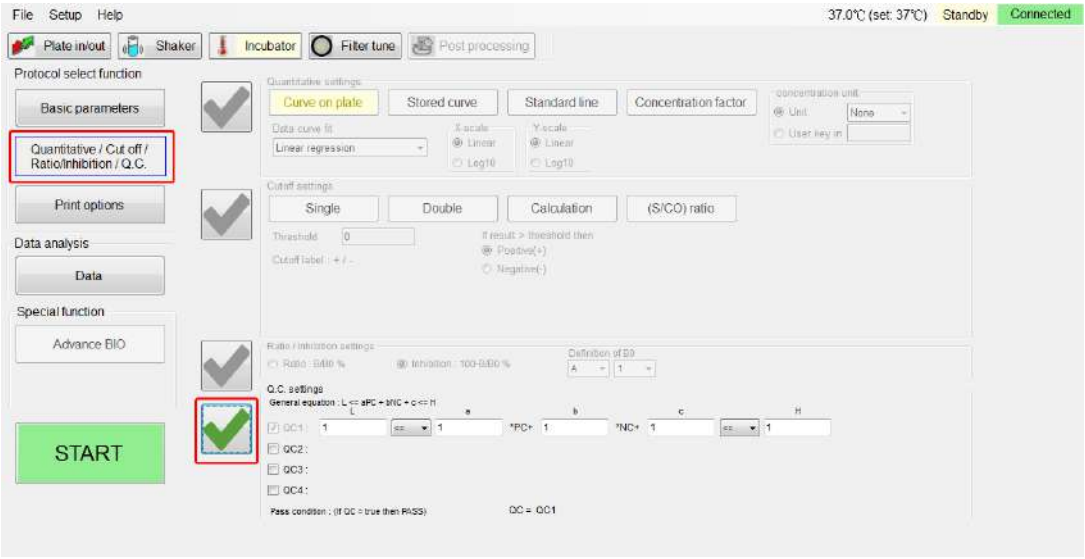
1. Click the Quantitative / Cut off / Ratio / Inhibition / QC button.
2. Click the check mark in form of the Ratio/Inhibition settings area, and be sure the check mark turned green.
3. Define the desired parameters.



Q.C.

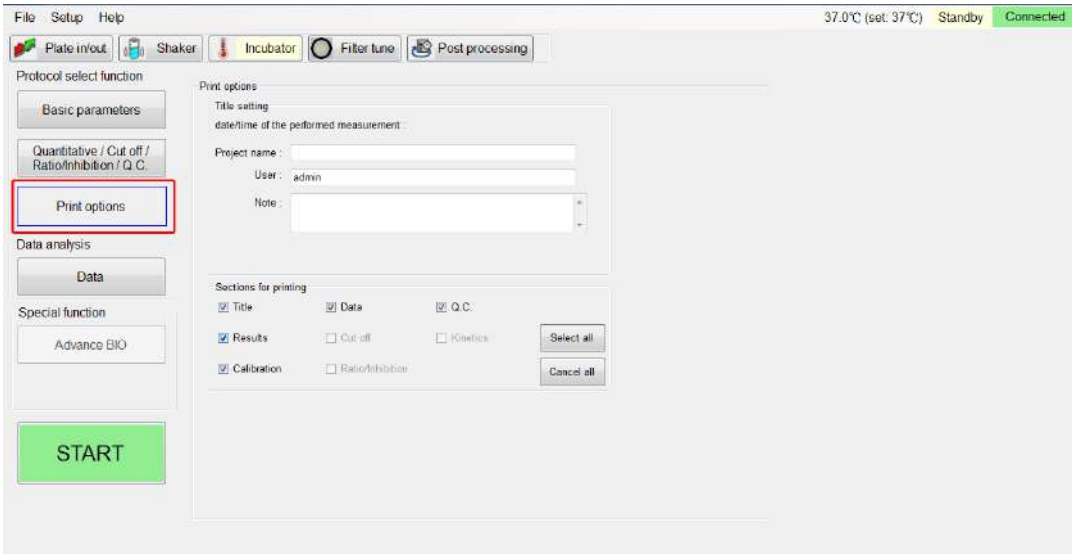
The M965 Mate 2.0 USB provides Q.C. algorithm for experiment to determine the results.

1. Click the Quantitative / Cut off / Ratio / Inhibition / QC button.
2. Click the check mark in front of the Q.C. settings area, and be sure the check mark turned green.
3. Define the desired parameters.



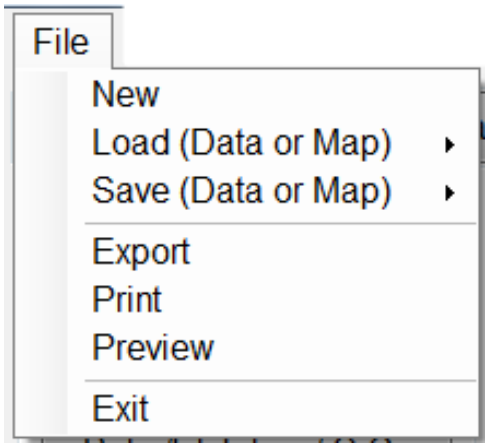
Print options

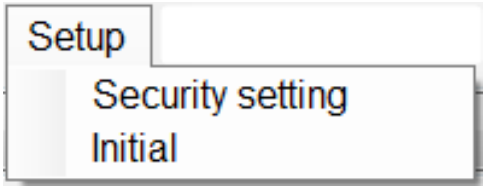
Users can define the Project title, User name, experiment Note, and check the desired items in Sections for printing to print the result of the experiment.

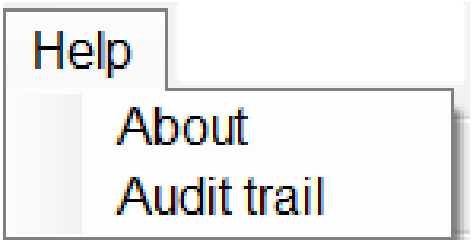


Main Menu Configuration

There are three functions on the main menu. They are File, Setup and Help.



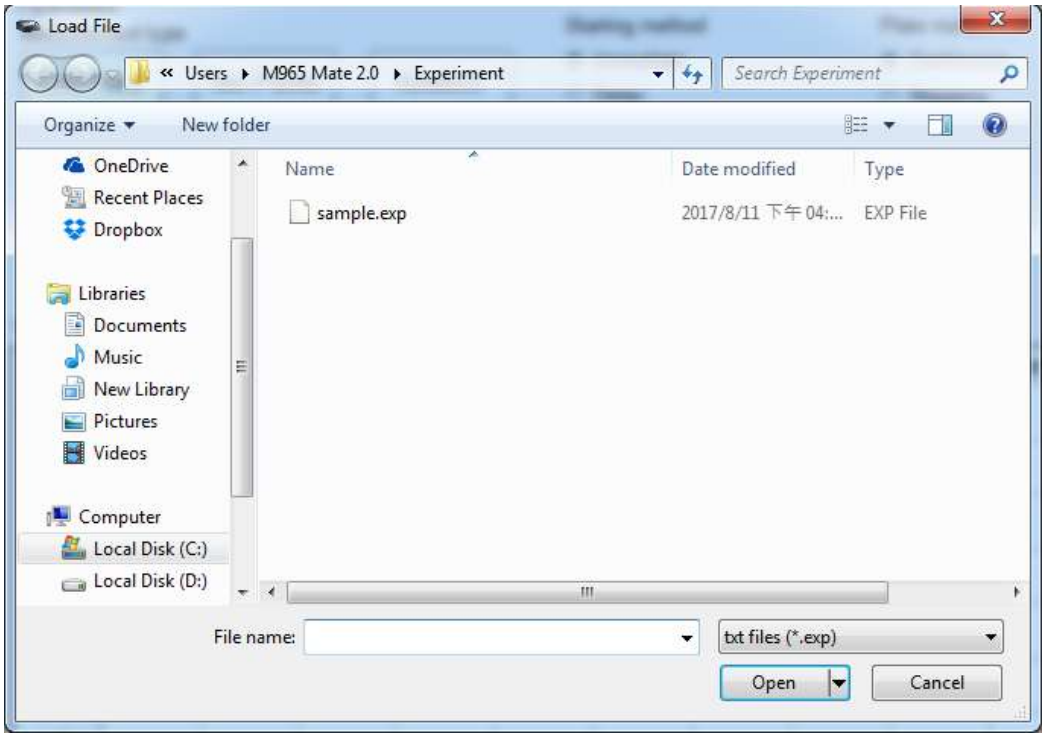




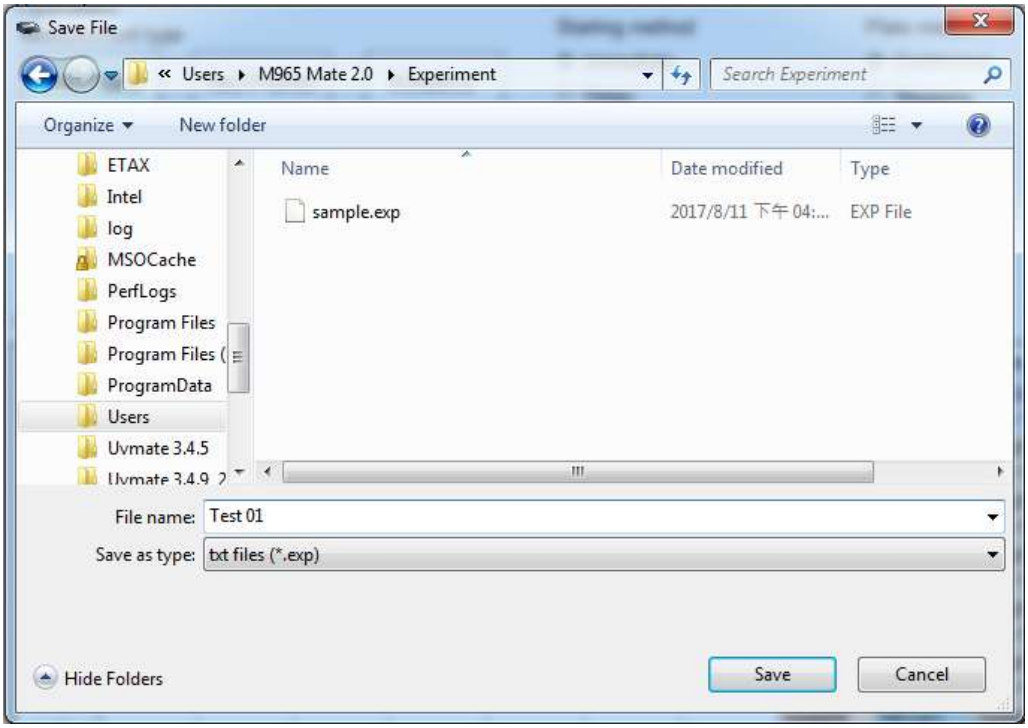
File menu functions

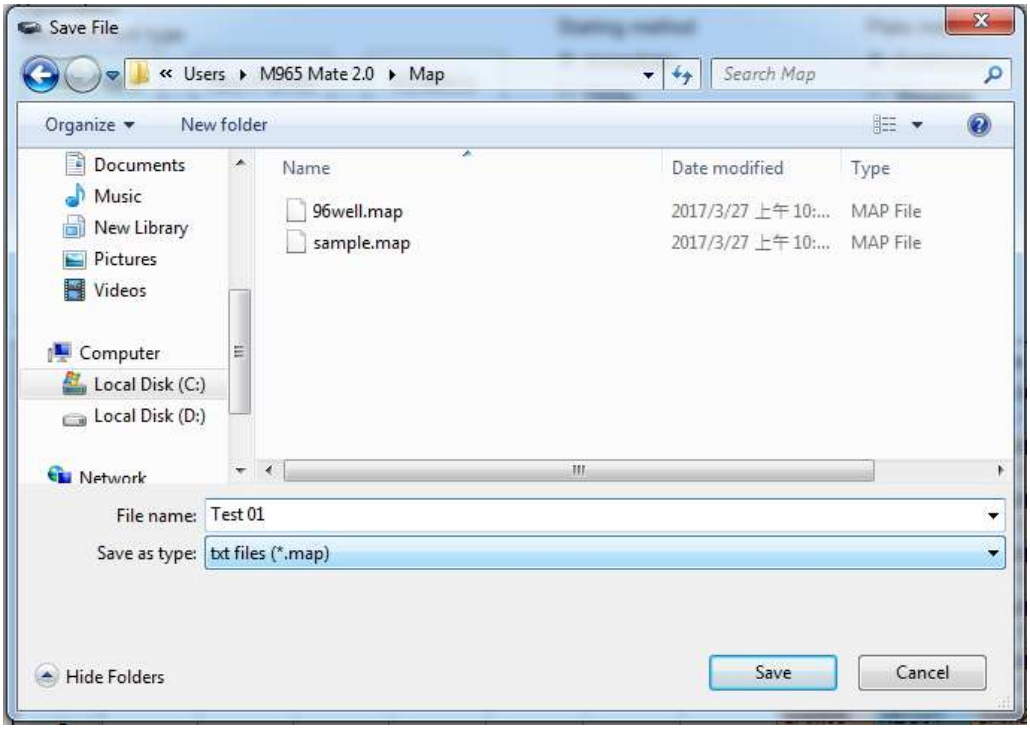
There are seven options, i.e. New, Load (Data or Map), Save (Data or Map), Export, Print, Preview, and Exit under the main menu.

1. New: Create a new experiment
2. Load (Data or Map) : Load an existing experiment file or map layout

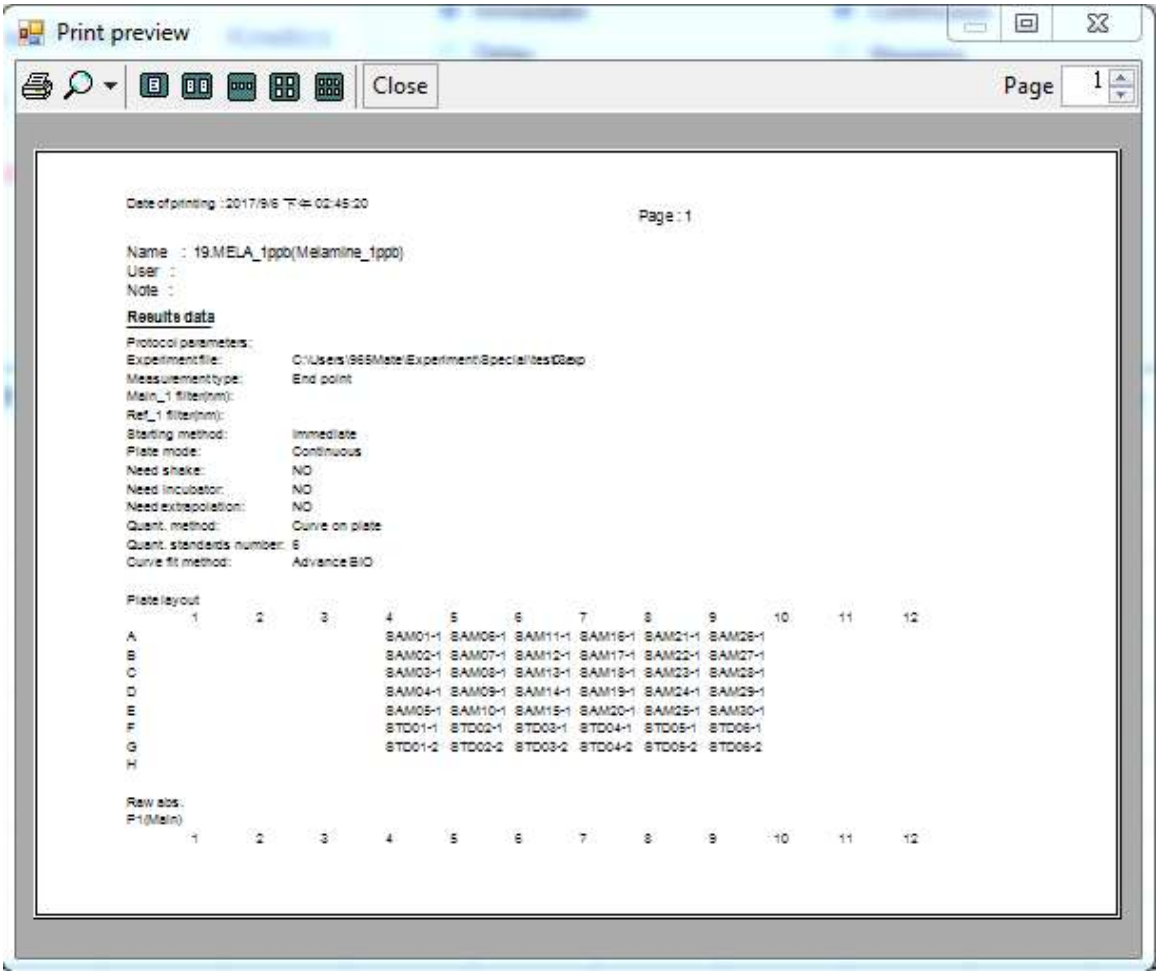


3. Save (Data or Map) : Save experiment file or map layout





4. Export: To export to a file with file extension "csv", and it can be loaded into the excel, notepad or google spreadsheet
5. Print: To print report using the printer connected to the PC
6. Preview: To preview the experiment report before printing



7. Exit: to end the M965 Mate 2.0 USB operation

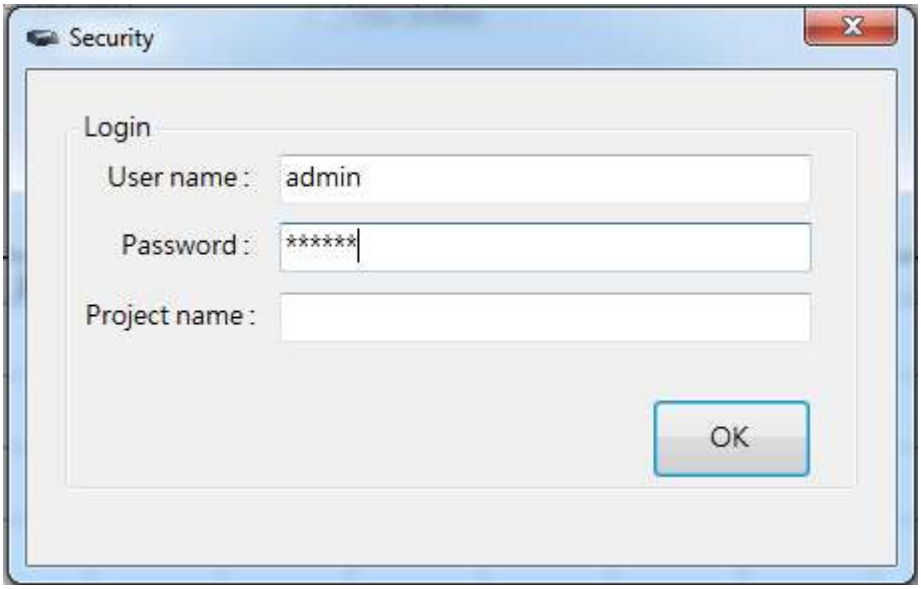
Setup menu functions

The setup menu includes the Security setting and the Initial.

1. Security setting: Users should log in with their own ID and Password to start the experiment. This function lets you log in / log out system, create, and or delete user ID.

   Logo in system
   To enter the system, please use the default value (admin) to log in.

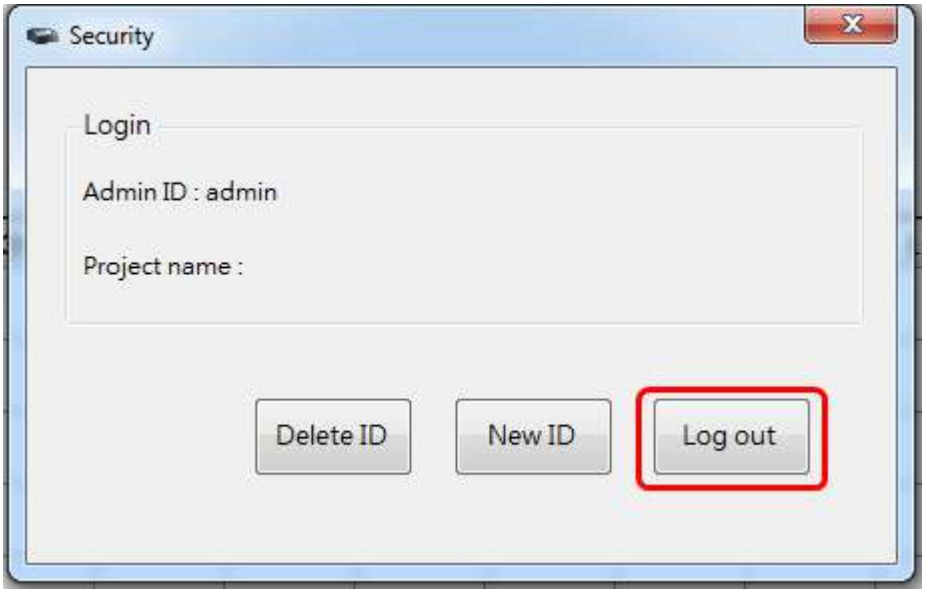
   User name: admin
   Password: admin



   Entering the wrong user name or password, The M965 Mate 2.0 USB will show the pop-up window as below.

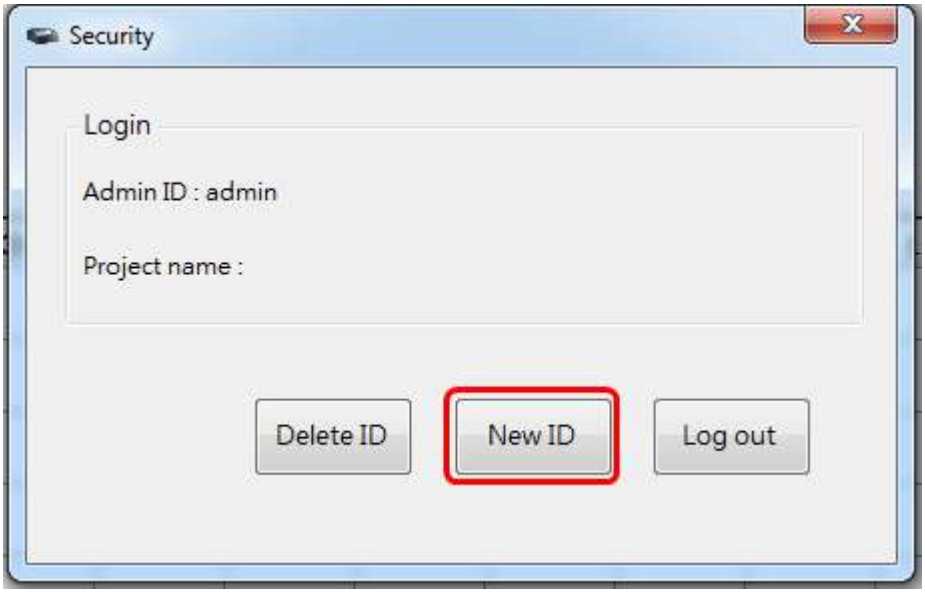
Log out system

To log out system or change the operator ID

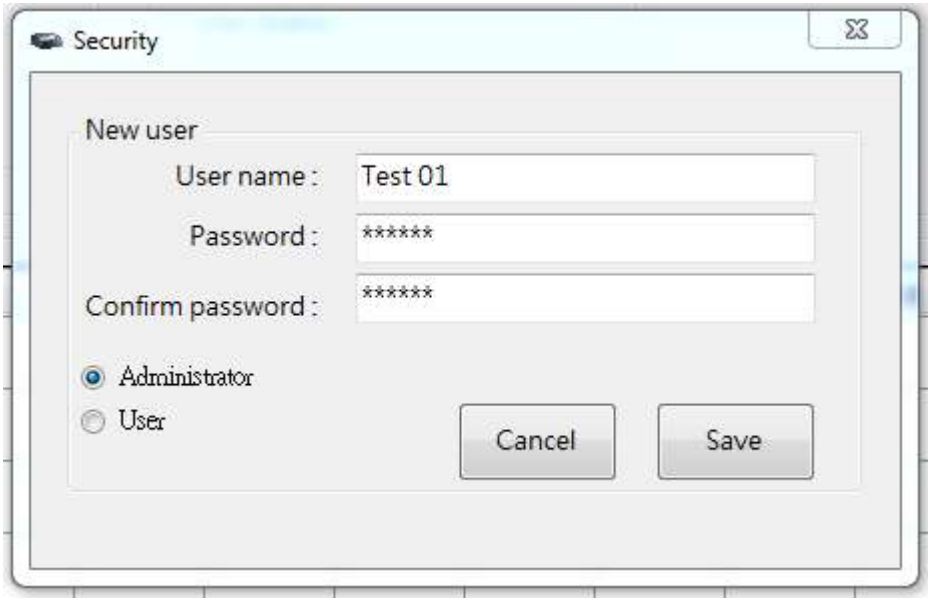


Create a new ID

This function can be performed by users with administrator authority only.



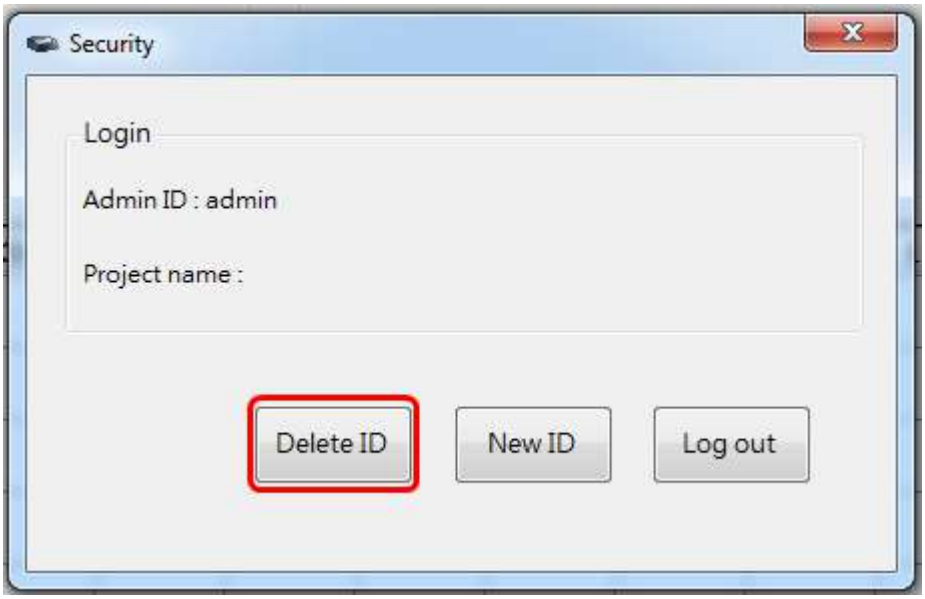
Enter the new ID with user name, password, and ID authority (administrator or user), and then press Save button to accept.



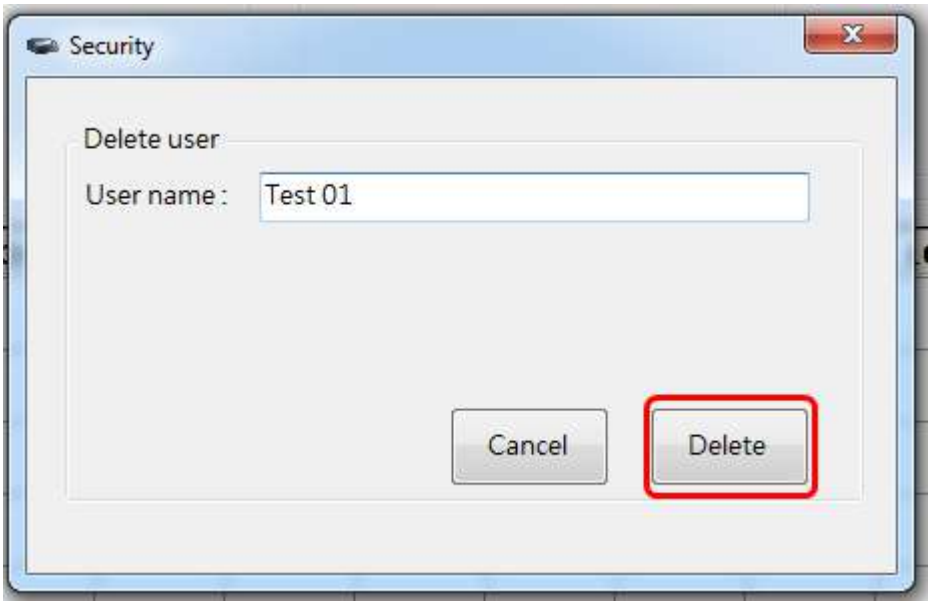
Successfully creating a new user will see the pop-up window as below.

Delete ID

This function can be performed by users with administrator authority only.



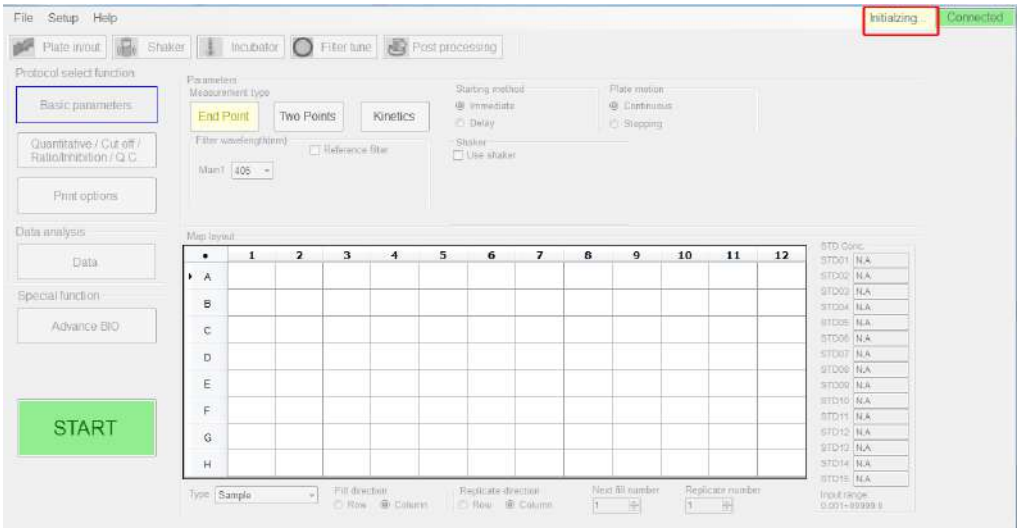
Enter the ID which you want to delete and press Delete to execute.



2. Initial

   This function is re-connect the M965/965+ Reader and the computer.

   Especially after the reader and the PC software are left for a while, or after re-start the software than to do re-connect.

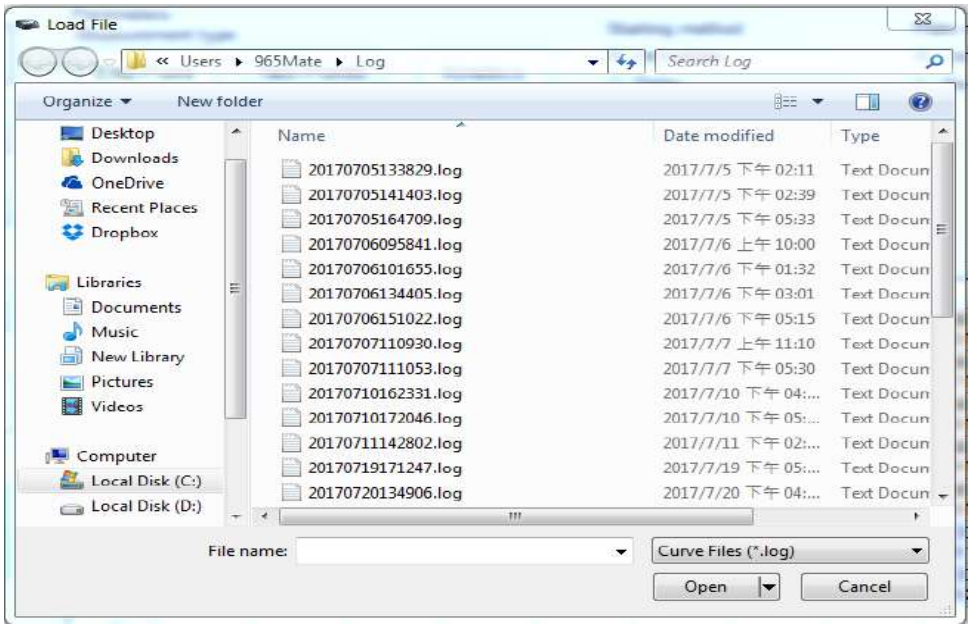


Help menu functions

The help menu, not only shows the information about the vendor and PC software version, but also trails the log-in and operation record.

1. About: Provide the contact information of vendor and PC software version

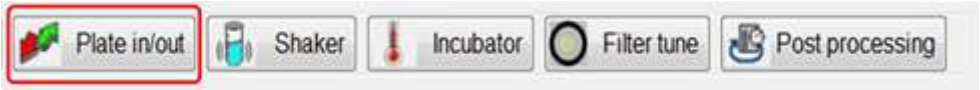
2. Audit trail: To review the records of activities of different ID



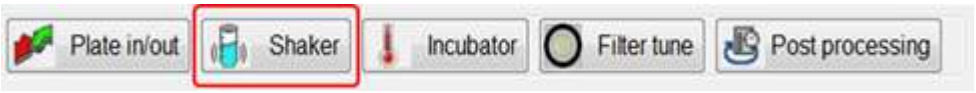
Toolbar Menu Configuration

There are Plate In/Out, Shaker, Incubator, Filter tune, and Post processing tabs on the toolbar menu.

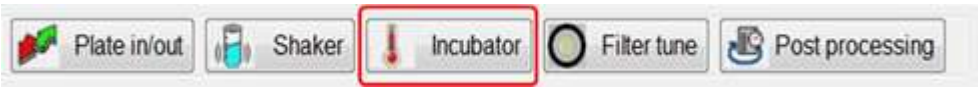
1. Plate in/out: To move the plate holder in or out, the plate holder status will show on the status bar



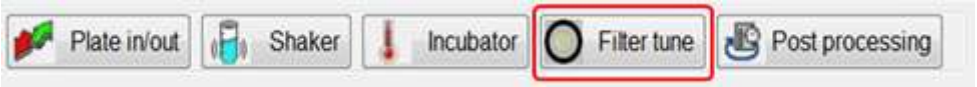
2. Shaker: This tab is used to configure and operate the shaker. The shaker has three translation speeds, i.e. low (8Hz), Medium(11Hz) and High (14Hz)



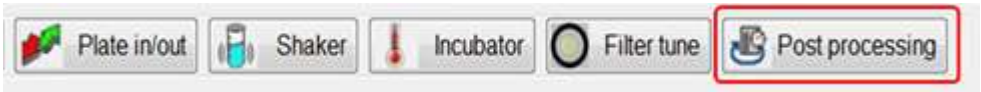
3. Incubator: To warm up the incubator at set-point temperature from the lowest 15℃ to the highest 50℃. If the ambient temperature is higher than 15℃, the effective lowest temperature should be set to the ambient temperature + 3C.



4. Filter tune: The 965Mate has an eight- slot filter wheel for user to install filters



5. Post Processing: Use the current parameters of selected measure mode and recalculate the data



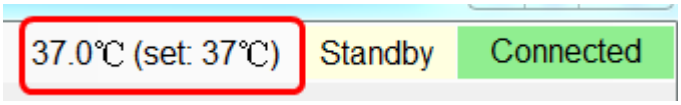
Message Area Configuration

The message area contains two parts, the status message and the temperature monitor.

1. Status message: To display the status of instrument current operation condition. All messages are listed in the following chart.

Message	Description
Initializing	Initializes the instrument
Standby	Test ready
Data reading	Load data
Post processing	Recalculate the data
Disconnect	The instrument has no connection with M965 Mate 2.0 USB
Connected	The instrument connects with M965 Mate 2.0 USB
Filter tune	Start tuning filter

2. Temperature monitor: To display the real-time temperature and set-point temperature of instrument incubator.

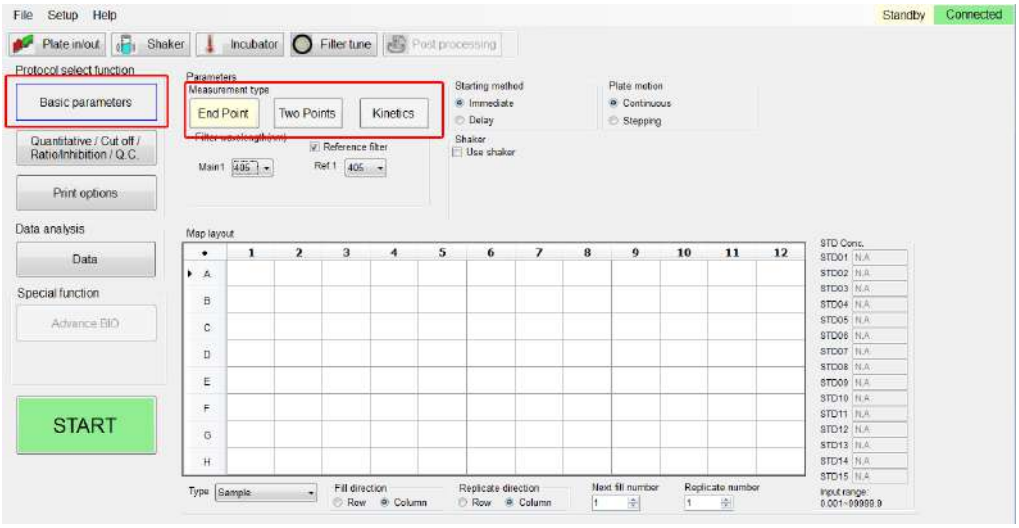


Defining Parameters for Experiment

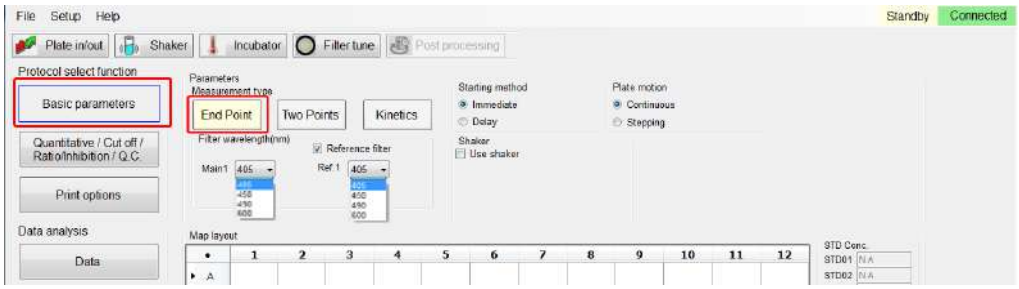
Defining Parameters

When starting an experiment, users must first define the parameters such as wavelength, reading method, plate motion, incubator, and shaking. Above functions are included in Basic parameters tab.

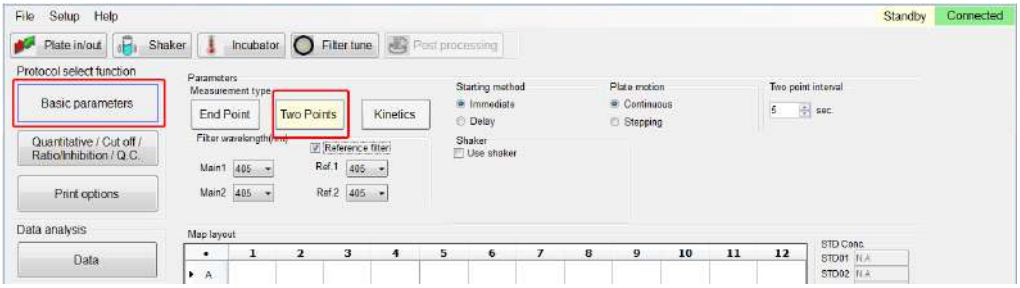
1. Measurement Type: Users can define three measuring types, i.e. End point, Two point and Kinetic.



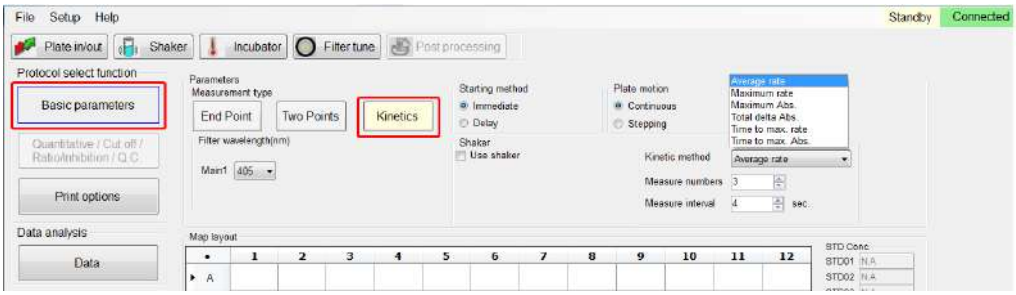
a、 End Point



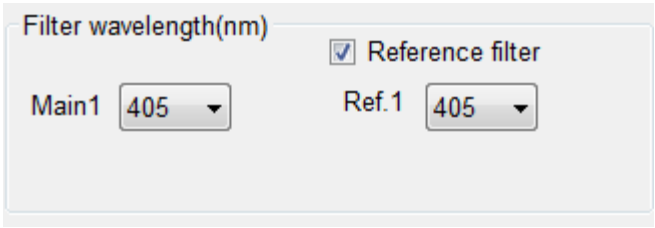
b、 Two Points



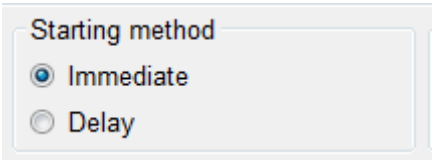
c、 Kinetics: Kinetics measuring method can only select main filter without reference filter



2. Filter wavelength: Users need to select the main filter wavelength for the desired experiment. In addition, users can also select a reference wavelength.

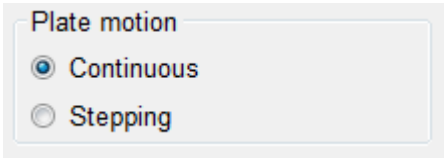


3. Starting method: Define when to start the selected experiment.
   a、 Immediate: Start measurement right after pressing the START tab
   b、 Delay: Users can define 0~999s as delay time before starting measurement.



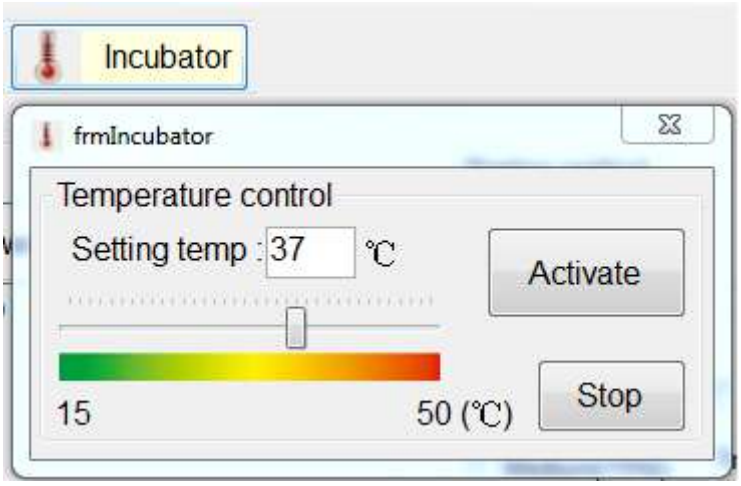
4. Plate motion: To define how the plate is moved when measuring

a、 Continuous: When measuring, the plate is translated smoothly during the entire motion stroke.

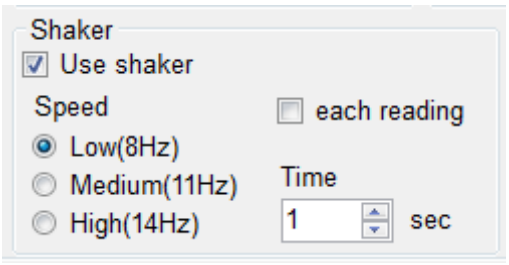


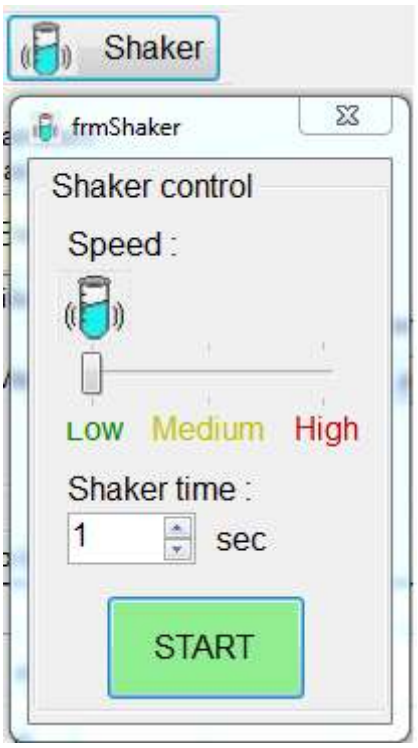
b、 Stepping: User can define the stepping intervals among 0~999 msec. In kinetic mode, there are variable stepping interval and fixed stepping interval to be selected.

5. Incubation: Users can define the incubator temperature by clicking the incubation tab. The temperature can be set from ambient 15℃ to 50℃.

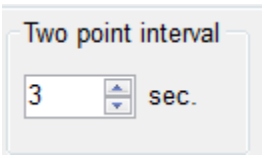


6. Shaker: The shaker of the instrument shakes with three types of speed, and the shaking time can be arranged among 0~999s

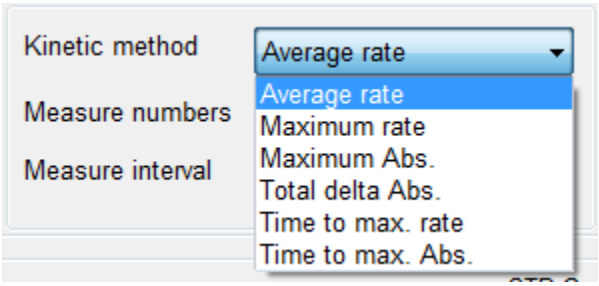




7. Two point interval: Users can select the two point interval among 3~999s



8. Kinetic method, numbers, and interval: In kinetic measurement mode, user can select the data calculation method, test cycles, and cycle interval.
   a、 Kinetic method: Uses can select Average rate, Maximum rate, Maximum OD, Total delta OD, Time to max slope, Time to max OD for mapped wells calculation.



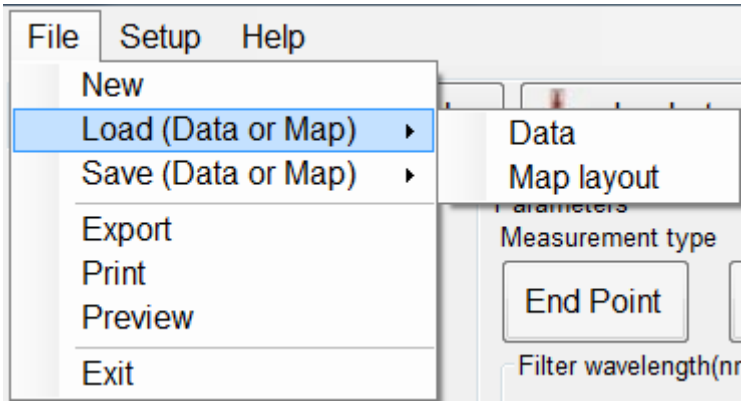
b、 Measure number: User can enter the measuring numbers among 3~255 cycles.

c、 Measure interval: User can enter the measure interval. They are among 4~65535s in continuous motion, and 6~65535s in stepping motion.

Well Mapping

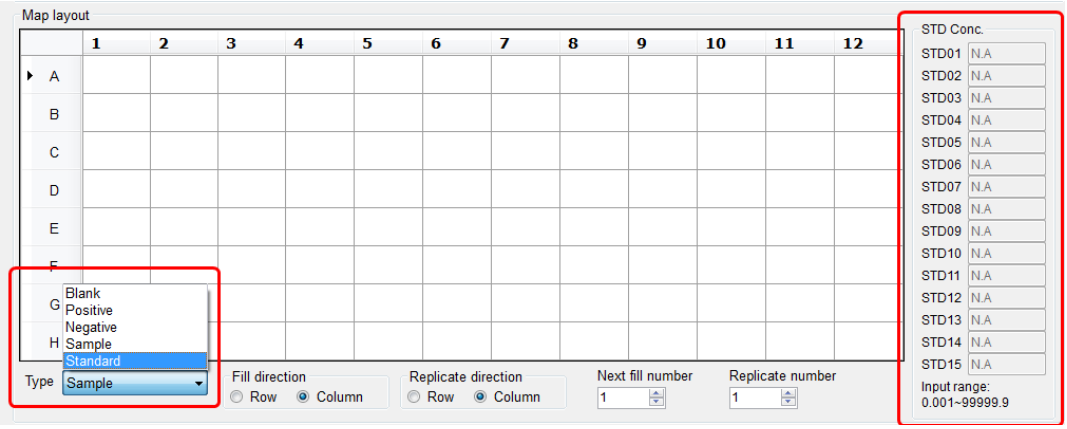
The M965 Mate 2.0 USB provides five types of well for the user to define 96-well map, also including define each sample well ID. Moreover, the user can save the mapped wells and reload them for further uses.

1. Save and load map layout:
   Users can load or save their map layout from File/ Load (Data or Map) or Save (Data or Map) functions



2. Well mapping method:
   a、 Select the well type to be defined (Blank, Positive, Negative, Sample, Standard) on the map layout. On the right side, enter the concentration values if standard is selected.

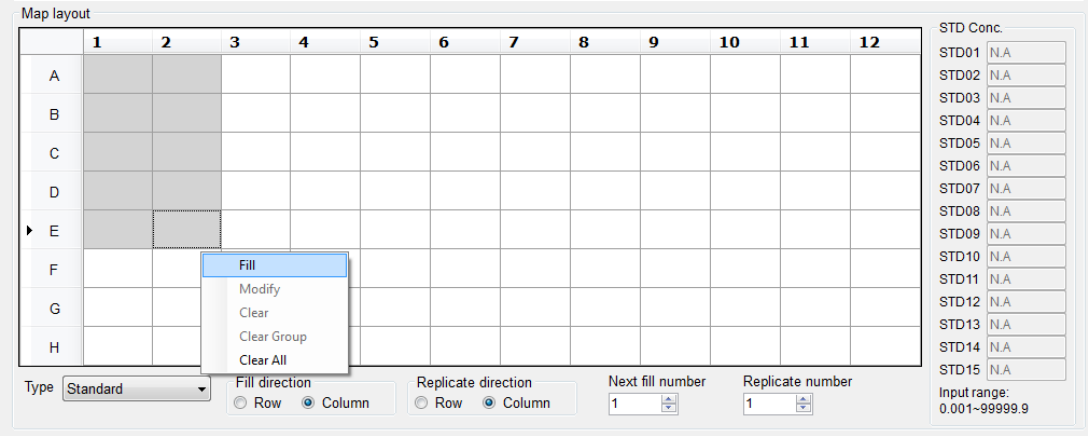
   Note: Sample is the only available type in kinetic mode.



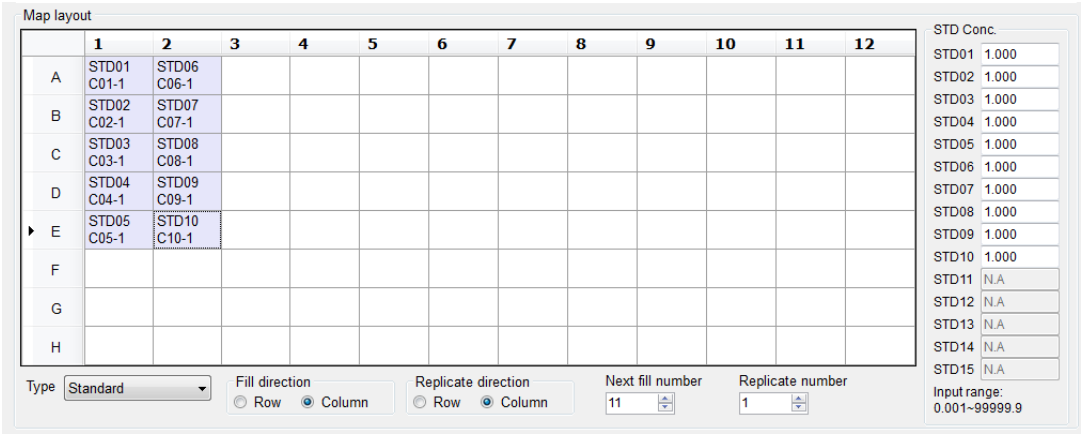
b、 Select the fill and replicate directions, enter next fill number, and replicate number.

c、 Use mouse to draw an area, which wells are to be placed with selected type.

d、 Right click on the mouse to select the fill option.

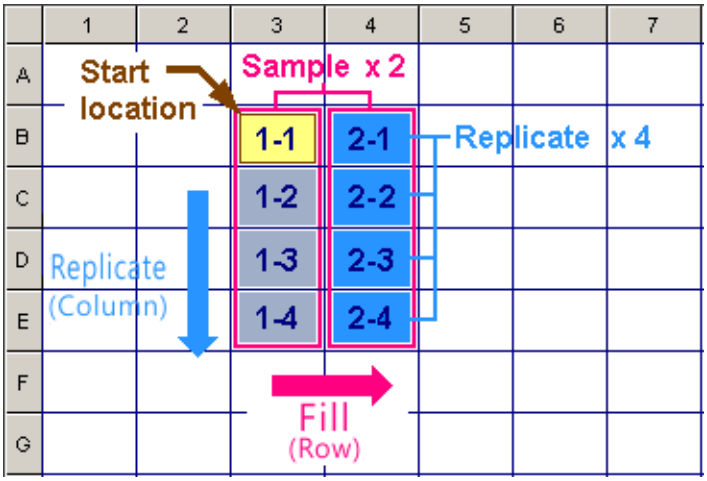


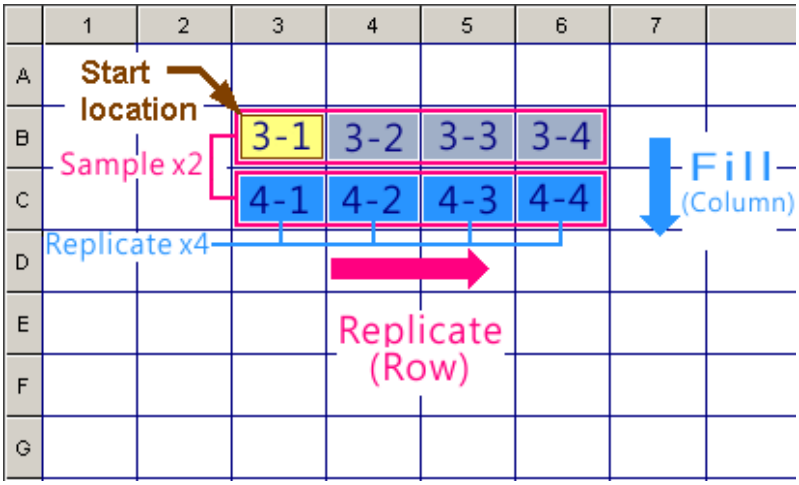
e、 The selected ten standards are thus located on the well map.



3. Fill and replicate well:
   a、 Fill direction: To number the sequence of selected sample type in column or raw direction.
   b、 Replicate direction: To number the sequence of the replicates of selected sample type in column or raw direction.

Example of filling and replicating the well map





4. Blank, positive control, and negative control each has only one name (BLK01, POS01, NEG01).
5. Standard can be configured as 1~15 names(STD01~STD15)
6. Sample has 96 defaults names most (SAM01~SAM96).

7. Types of well:

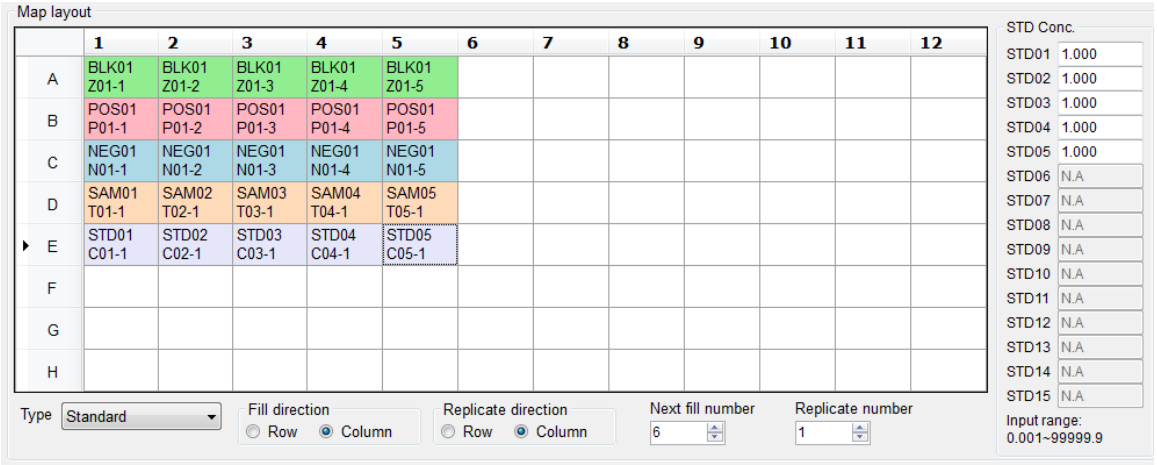
   a、 BLK: Which is painted with light green background on the well map

   b、 POS: Which is painted with light red background on the well map

   c、 NEG: Which is painted with light blue background on the well map

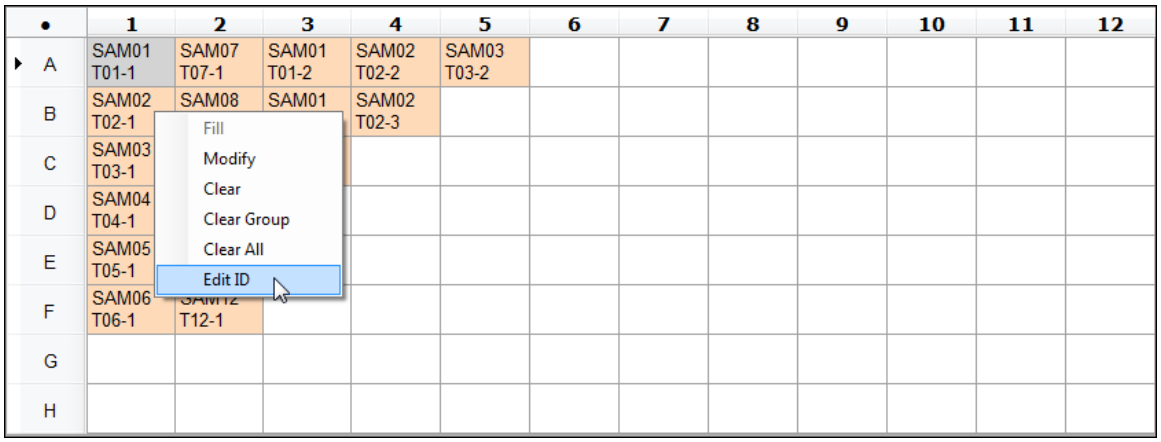
   d、 Sample: Which is painted with light orange background on the well map

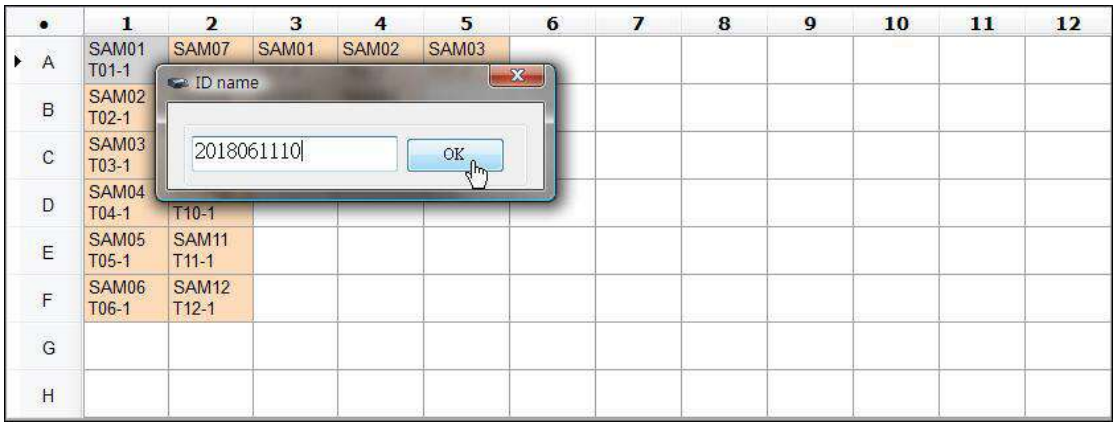
   e、 Standard: Which is painted with light purple background on the well map
   Users must fill in the concentration values of selected standards in ascending or descending order.



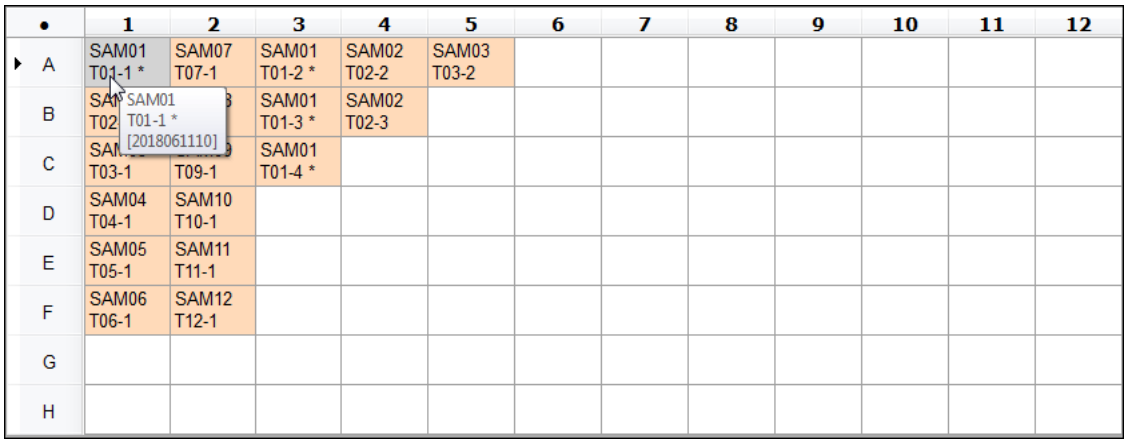
8. Edit sample ID

   a. After creating Sample wells at the Map layout, right click the mouse to select the Edit ID option at the pop-up window, and key in the sample ID as required.

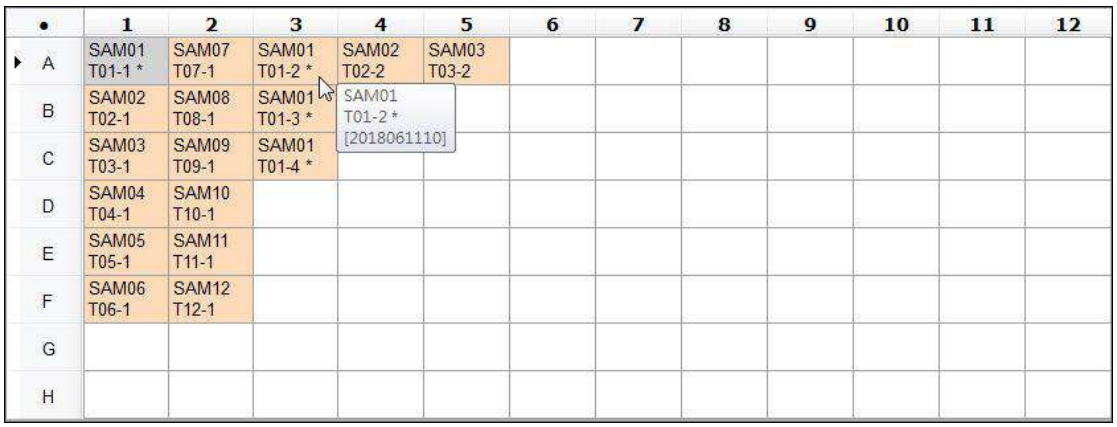


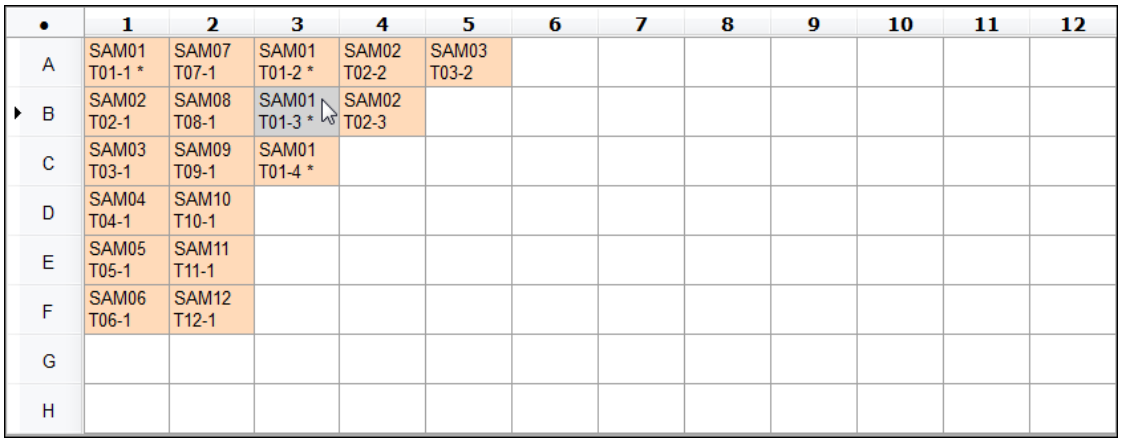


b. Check the sample ID: Those named sample wells will come up a * mark behind the replicate number. Moving the mouse cursor to the well and the ID will pop up automatically.



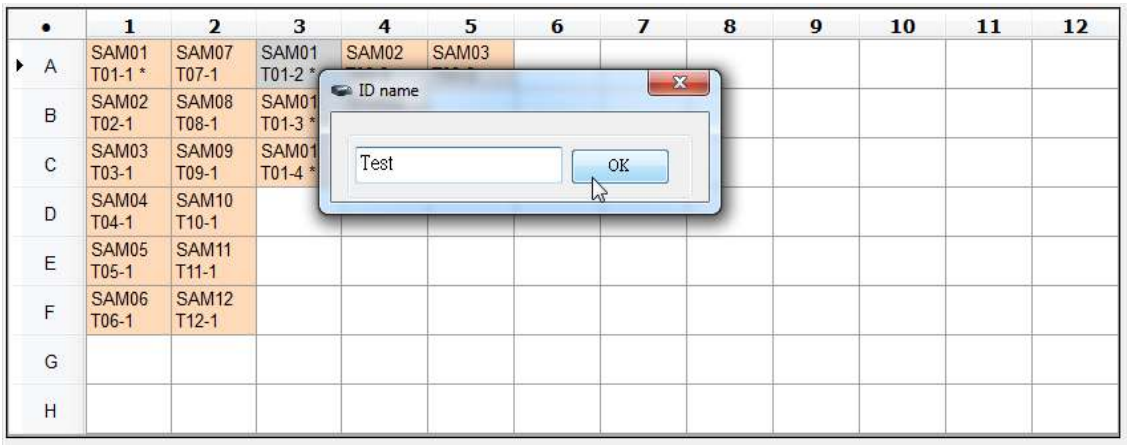
c. Auto ID naming of replicated wells: If the sample has several replicates, it is only to name any picked one, and the rest ID will be automatically created.

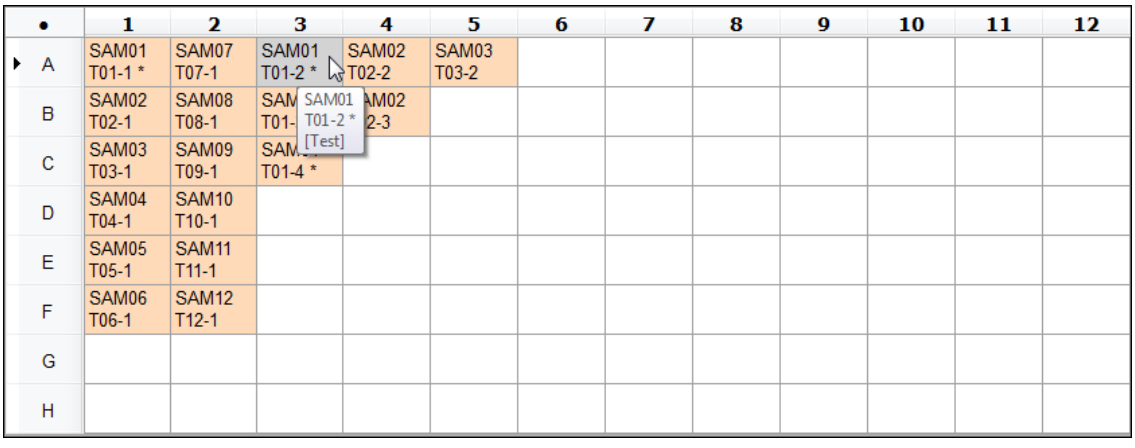




•	1	2	3	4	5	6	7	8	9	10	11	12
A	SAM01 T01-1 *	SAM07 T07-1	SAM01 T01-2 *	SAM02 T02-2	SAM03 T03-2							
B	SAM02 T02-1	SAM08 T08-1	SAM01 T01-3 *	SAM02 T02-3								
C	SAM03 T03-1	SAM09 T09-1	SAM01 T01-4 *									
D	SAM04 T04-1	SAM10 T10-1										
E	SAM05 T05-1	SAM11 T11-1										
F	SAM06 T06-1	SAM12 T12-1										
G												
H												

d. Amend or cancel sample ID: Right click the mouse to select the Edit ID option, then amend the ID or remove ID.

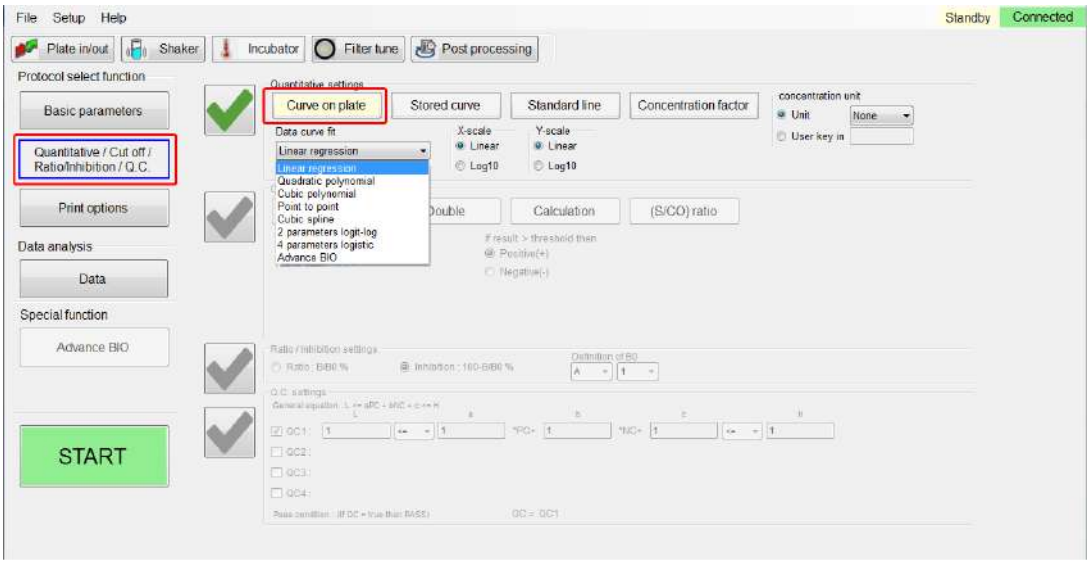




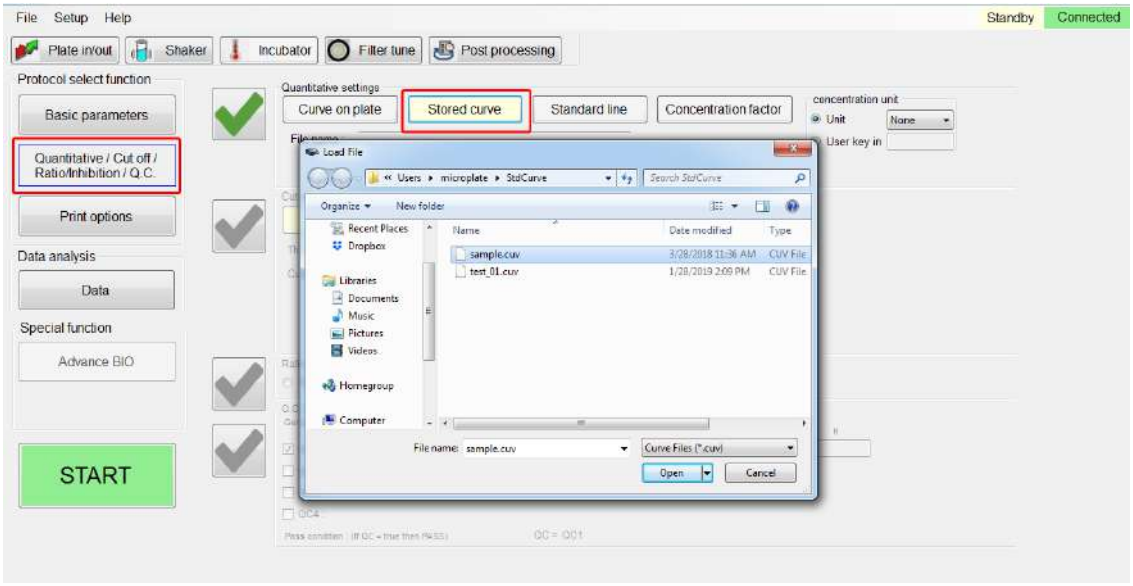
Quantitative Measuring Method

The M965 Mate 2.0 USB provides four types of Quantitative method, i.e. Curve on plate, Stored curve, Standard line, and Concentration factor.

1. Curve on plate: Use the standard on the well plate for the calibration curve calculation. There are seven types of curve fitting equations on the M965 Mate 2.0 USB
   - a、 Linear regression
   - b、 Quadratic polynomial
   - c、 Cubic polynomial
   - d、 Point to point
   - e、 Cubic spline
   - f、 2 parameters logit-log
   - g、 4 parameters logistic
   - h、 Advance BIO (Option function)



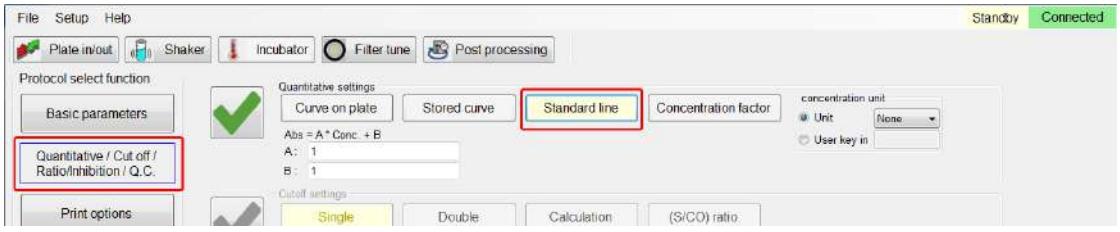
2. Stored curve: Users can load their stored curve for quantitative measurement, these curves with file extension ".cuv".



3. Standard line: User can use the Abs=A* Conc+B equation, and enter the values of A and B to calculate a standard line.

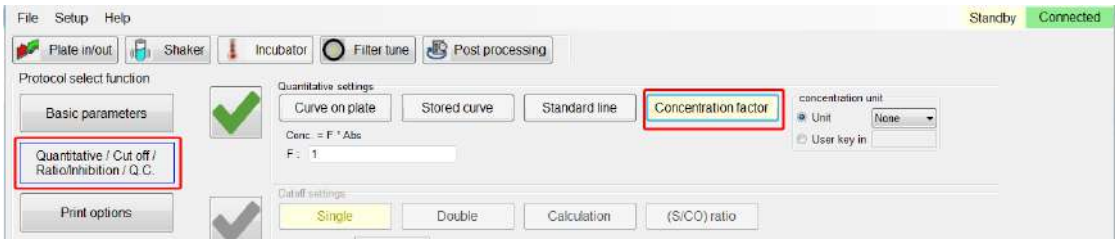
The value of A can be : -999999.999 ~ +999999.999

The value of B can be : -999999.999 ~ +999999.999

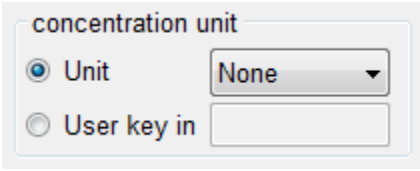


4. Concentration factor: User can enter a factor for calculating the concentration.

The value of F can be : -999999.999 ~ +999999.999



5. Measurement unit: Users can select 15 types of measurement unit "None" , "G/dL" , "U/L" , "G/L" , "ug/dL" , "ABS" , "mg/dL" , "OD" , "mABS" , "U/mL" , "ug/mL" , "mEq/L" , "mmol/L" , "umol/L" , "ng/mL". When "None" is selected, user can enter the desired measurement unit



Cutoff Measuring Method

The M965 Mate 2.0 USB provides four types of Cutoff measuring method.

1. Single cutoff method: User can enter a threshold of 0.0000~4.0000, and define OD result to be positive or negative.

2. Double cutoff method: Users can define the high and low thresholds. The high and low values can be among 0.0000~4.0000. The M965 Mate 2.0 USB determines OD results that are higher than high threshold, lower than low threshold, or between low and high thresholds to be positive(+), negative(-), or in-between (*) respectively.

3. Calculation cutoff method: User can create a maximum of four formulas as the thresholds calculation and categorize the OD readings into 5 groups.

   The equation listed below is applied to construct the thresholds with given a, b and c values.

   EQn = **a** * PC **+ b** * NC + **c,**

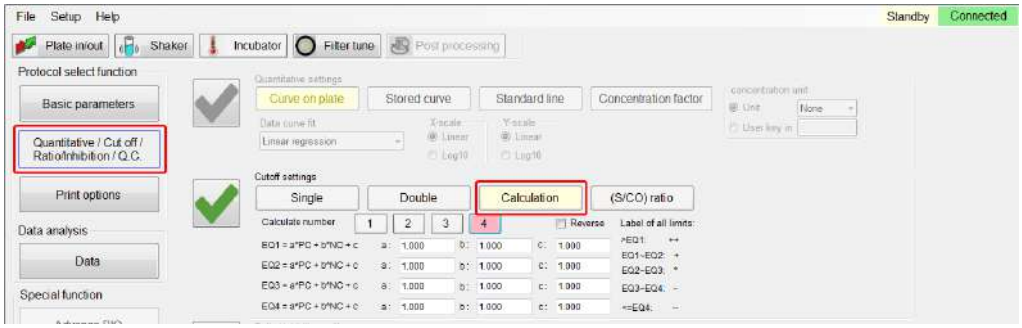
   Where PC means Positive Control, and NC means Negative Control.

   The value of a, b and c can be -1000.000 ~ +1000.000

   The calculated threshold values must follow the rule below:

   EQ1 > EQ2 > EQ3 > EQ4

Example: With four thresholds applied, the OD reading higher than EQ1, between EQ1 and EQ2, between EQ2 and EQ3, between EQ3 and EQ4,or below EQ 4 is labeled by "++", "+", "＊", "-" or "--" respectively.

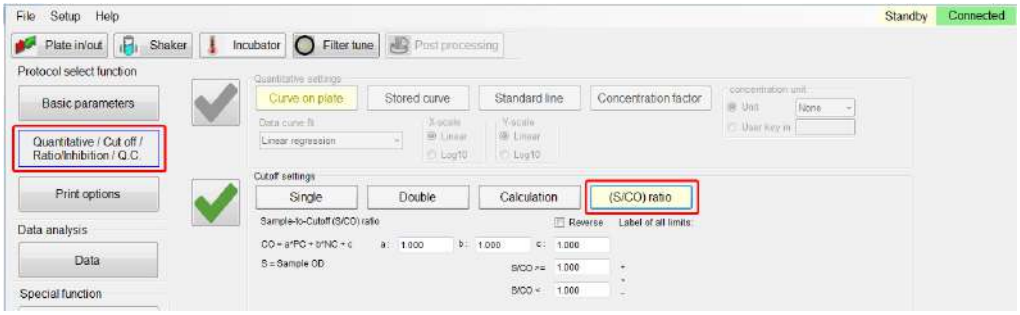


4. S/CO ratio method: User uses the ratio of sample OD divided by CO value as the benchmark, and also key in the high and low thresholds. The M965 Mate 2.0 USB will then determine S/CO ratio that are higher than high threshold, lower than low threshold, or between low and high thresholds to be positive(+), negative(-), or in-between (*) respectively.

   The equation listed below is applied to construct the CO value with given a, b and c values.

   CO = **a** * PC **+ b** * NC + **c**

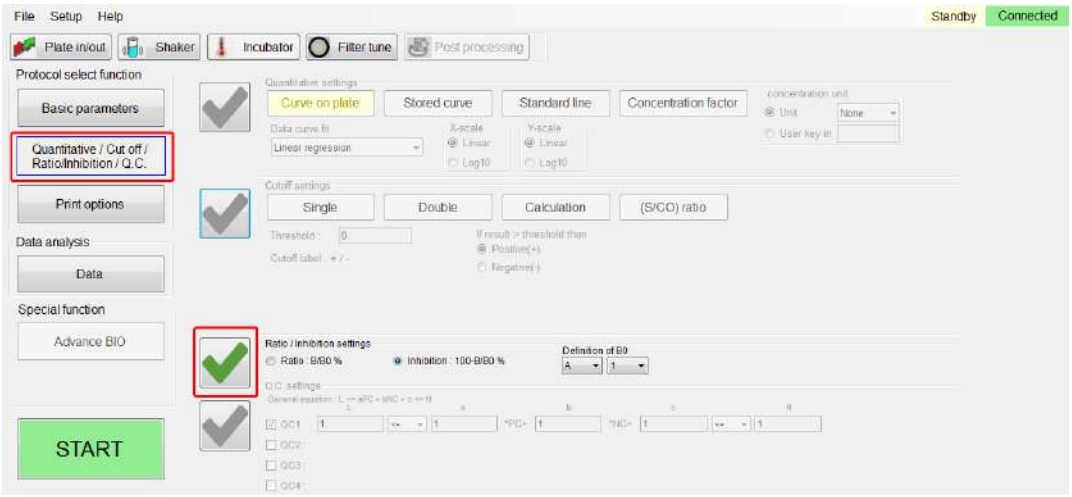
   Where PC means Positive Control, and NC means Negative Control.
   The value of a, b and c can be -1000.000 ~ +1000.000



Ratio/Inhibition Calculation Method

Select B0 as the standard value to calculate the rest of the plate well Bn

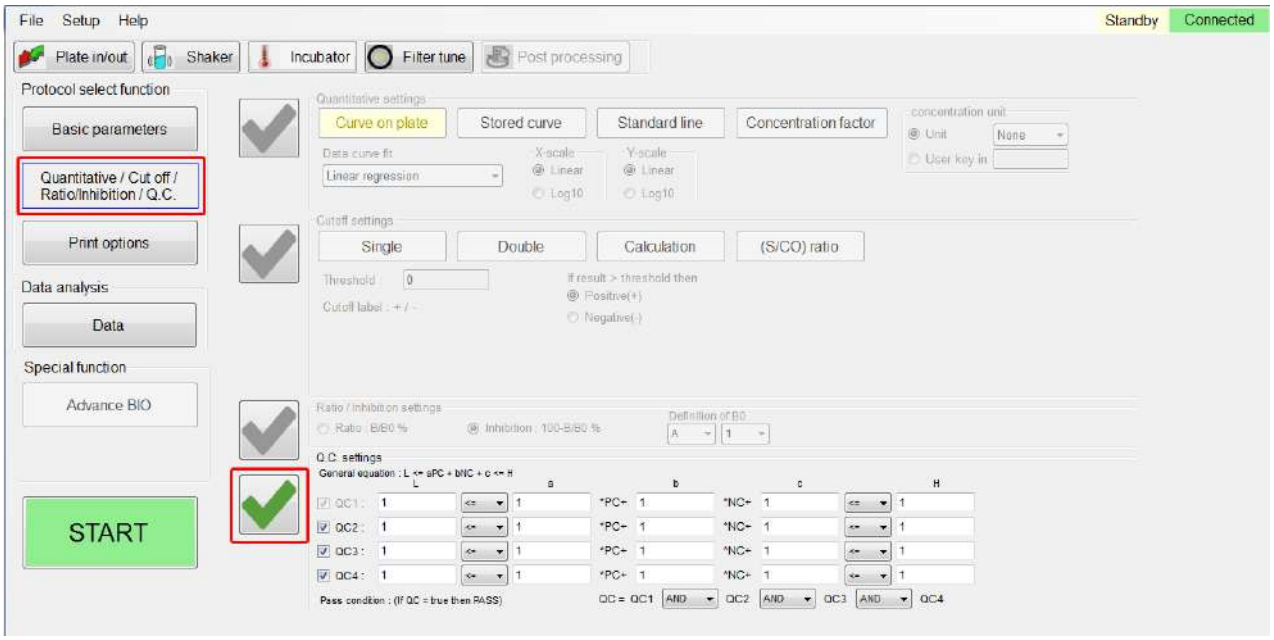
1. Ratio/Inhibition operating procedure
   - a、 Ratio = (Bn/B0)%
   - b、 Inhibition = 100% - (Bn/B0)%
   - c、 Must have sample on B0 position or the software will show error
   - d、 If the selected Bo has replicate number greater than one, the actual B0 value will be the average reading of this sample.
   - e、 If B0 value is 0, the software will show error
   - f、 If ratio is over 200%, the software will show HI; if lower than -200%, the software will show LO



Q.C. Calculation Method

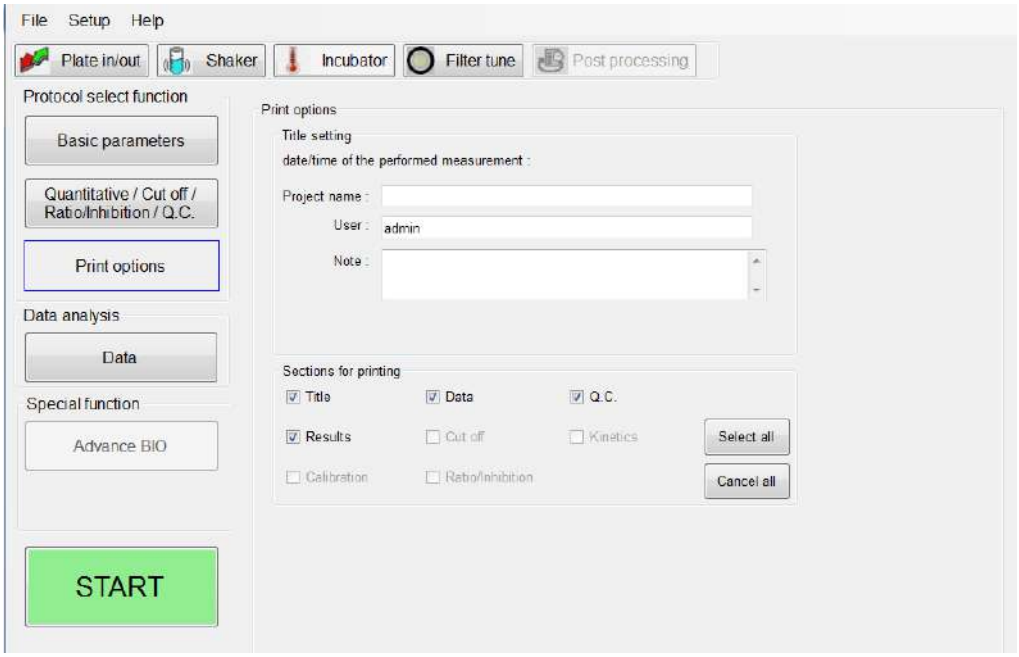
The purpose of the QC Calculation Method is to determine the reliability of the experiment.

1. At most 4 equations are applied to obtain the calculation results, QC1, QC2, QC3 and QC4.
2. Combining above QCs with logic operators OR, AND, and XOR to obtain the QC calculation result. The truth or falseness of QC decides the experiment to be pass or fail.
3. The value of a can be -1000.000 ~ +1000.000
4. The value of b can be -1000.000 ~ +1000.000
5. The value of c can be 1000.000 ~ +1000.000
6. The value of H can be -9999999.999 ~ +9999999.999
7. The value of L can be -9999999.999 ~ +9999999.999



Printing Options

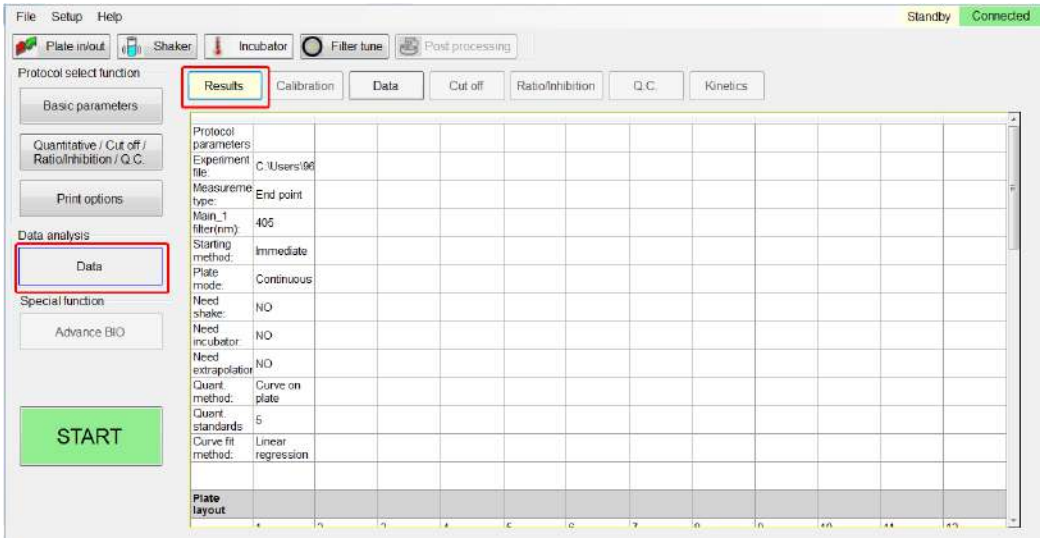
Users can input project name, operator name, and experiment note to differentiate experiment reports. Users can also check boxes in the Section for printing to determine which items need be printed on the report.



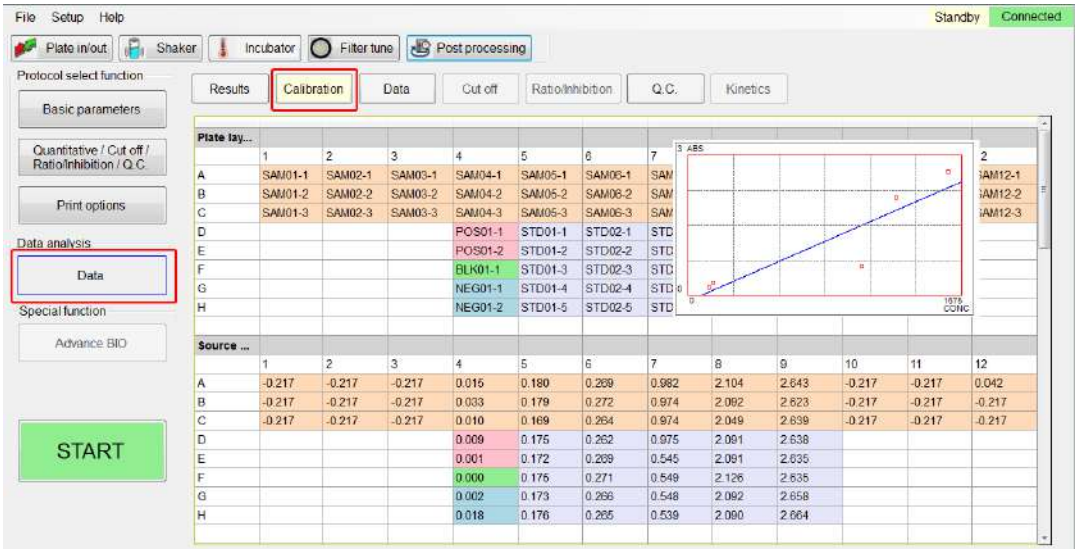
Interpreting the Results

The M965 Mate 2.0 USB will generate the result data after the experiment is completed. Press the Data tab on the left window, and select tab Results, Calibration, Data, Cutoff, Ratio/ Inhibition, Q.C, or Kinetic to view their experiment results.

1. Results: Click on the Results tab to review the parameter setup, plate layout, Raw OD, and Con Matrix of the experiment.



2. Calibration: When Quantitative is checked, calibration curve will be displayed according to the setting parameters.



a、 Layout: Shows the well mapping layout of the plate. Different types of well uses a different color to represent.

b、 Source data: Shows the source data for the quantitative measurement.

i. In end point measurement, if there is no reference filter then the main filter (M1) data is the source data. If there is reference filter then M1 – R1 is the source data.

ii. In Two points measurement if there is no reference filter, the source data will be M1

iii. In Two points measurement if there is reference filter then the source data will be D1=M1-R1

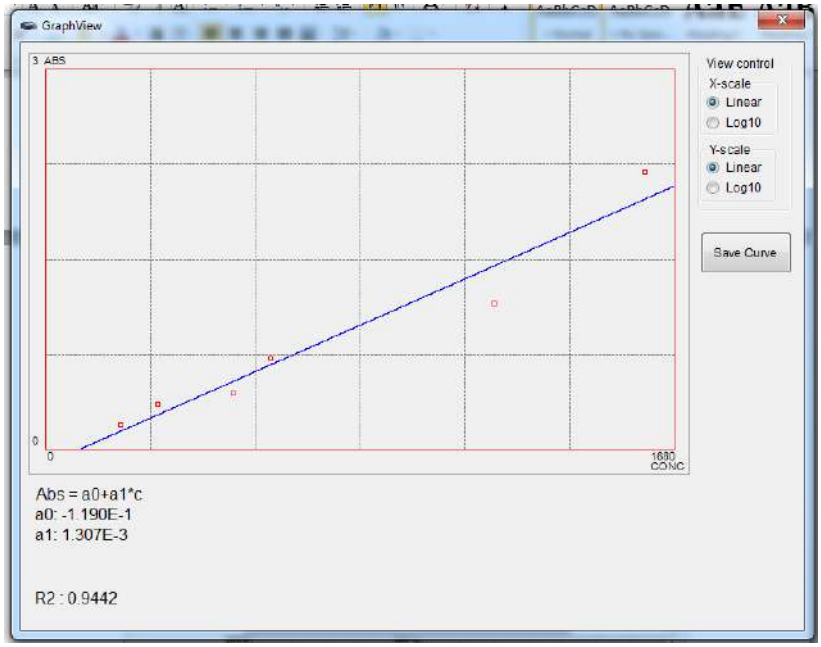
iv. During Kinetic measurement, user cannot use reference filter, the M1 data will be the source data

c、 Calibrators: Use C01~C15 to represent each STD's name and OD value, and show the average measurement and the standard concentration value.

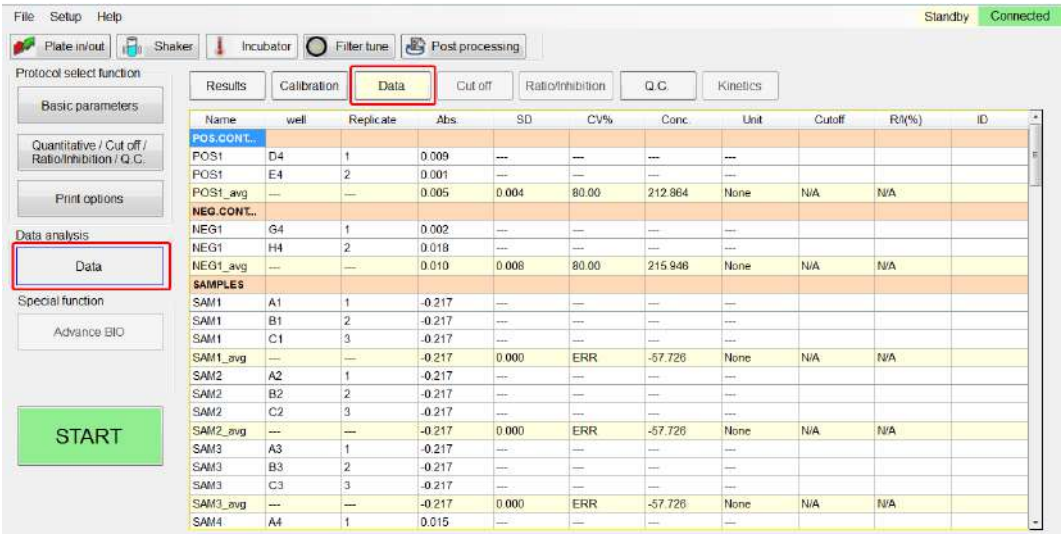
d、 Calib Curve: When using standard curve (Curve on plate or stored curve), apply selected fitting method to create a standard curve and its coefficients.

e、 Residuals table: Use C01~C15 to show standard concentration values (C set), Average Abs, calculated concentration (Ccal), and their difference (Ccal-Cset).

f、 Curve Viewer: User can double click on the curve to enable the curve viewer. User can also store the curve by pressing the Save Curve tab on the right. The default curve is stored in M965 Mate 2.0 USB \StdCurve directory.

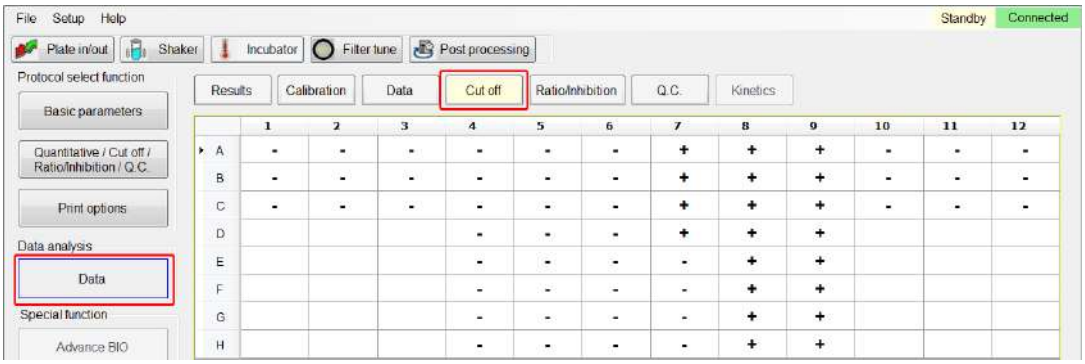


3. Data sheet: The raw data and calculated results of entire mapped wells can be listed in one data sheet. The sheet provides information about Name, Well location, Replicate numbers, Abs, SD, CV%, Conc, Measuring unit, Cutoff, Inhibition % and Well ID name. The average of replicated data is displayed by "_avg" next to the well ID.

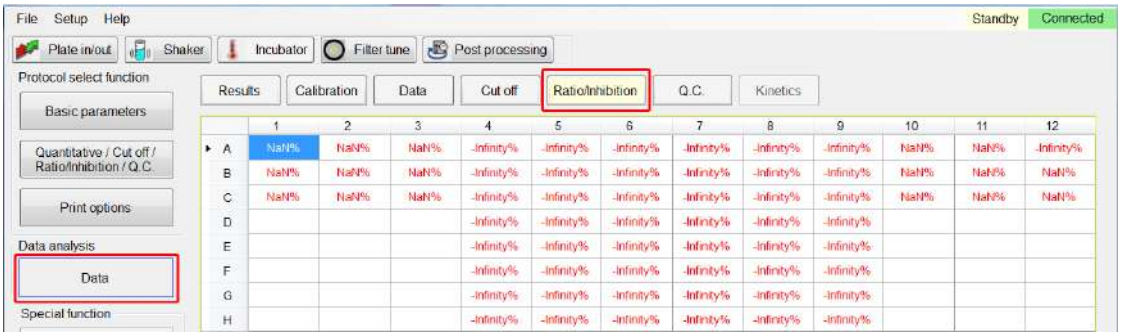


4. Cutoff results: Clicking the Cutoff tab, the M965 Mate 2.0 USB shows the cutoff symbols on mapped wells. Depending on the conditions, there will be five symbols to represent the cutoff results.

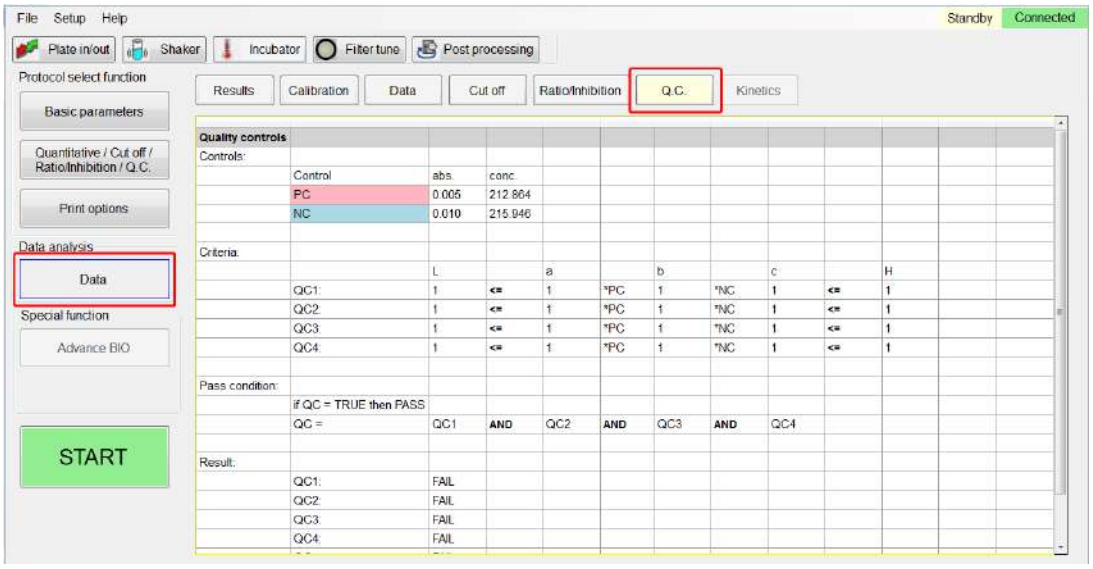
〔++〕、〔+〕、〔*〕、〔-〕、〔——〕



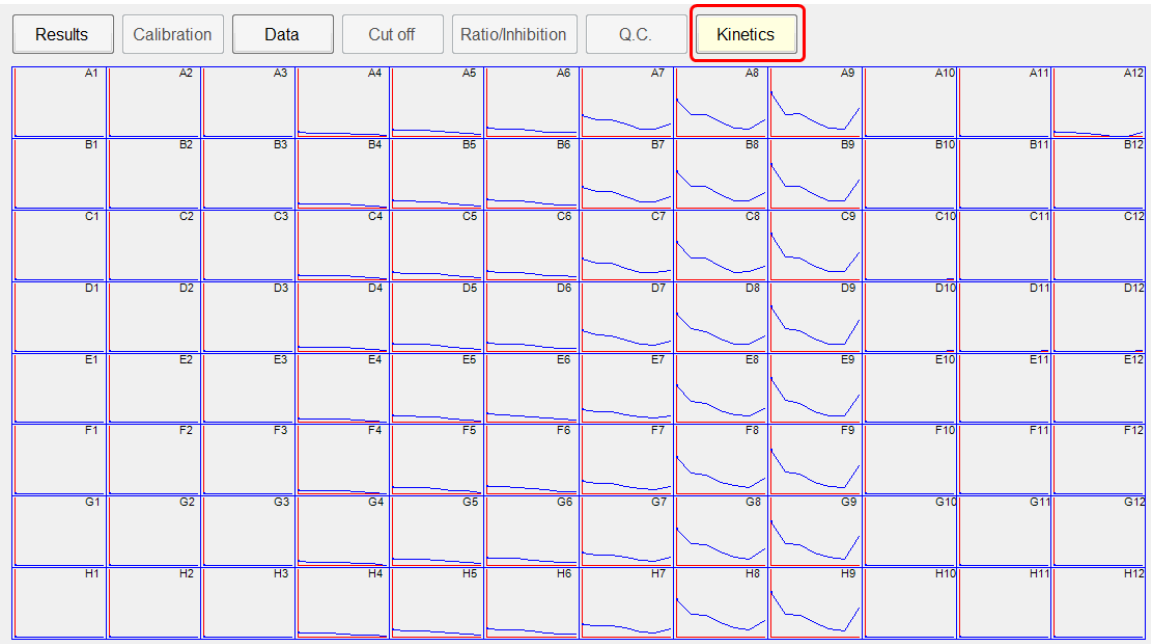
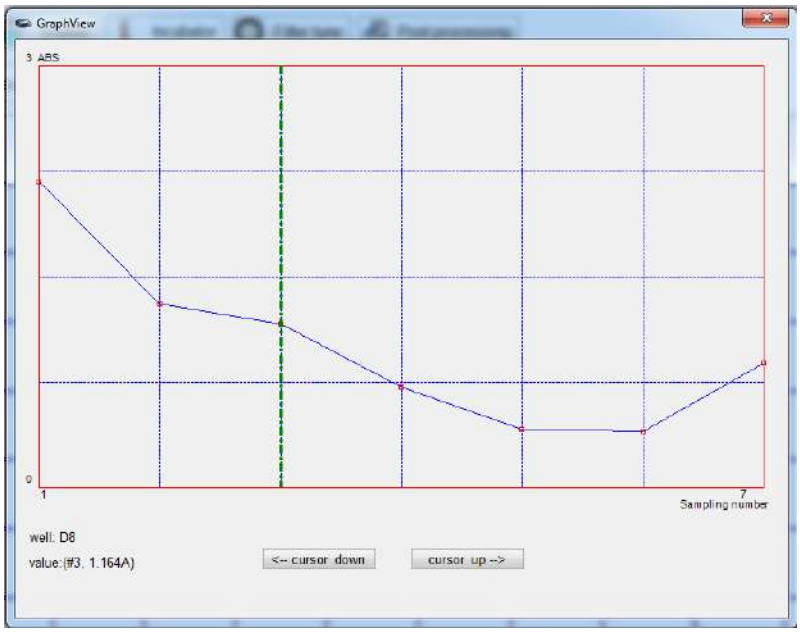
5. Ratio/Inhibition results: Clicking the Ratio/Inhibition tab, the M965 Mate 2.0 USB shows ratio or inhibition values of mapped wells. Data higher than 200% is shown Hi, and lower than -200% is shown LO.



6. Q.C results: Clicking the QC calculation method, the M965 Mate 2.0 USB shows the QC criteria, Pass condition, and Result on the data sheet.



7. Kinetic results: When using the kinetic measuring method, M965 Mate 2.0 USB will display the kinetic curves for each mapped wells. User can check the reaction rate easily on this screen.



Double click on the selected well to show a detailed view of the well number and OD value at selected sampling number.