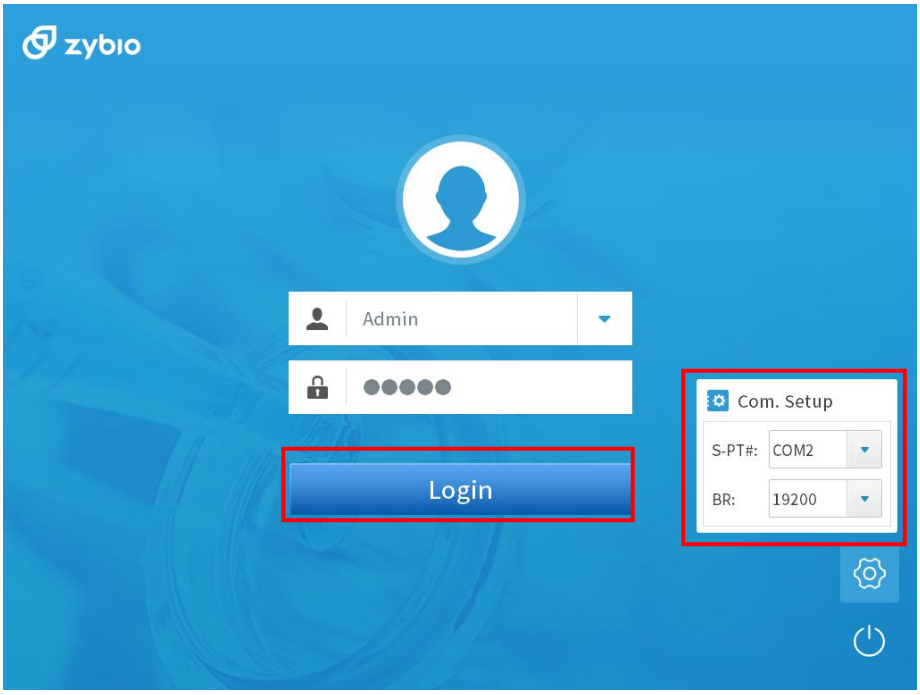
EXC200 Operation Guide

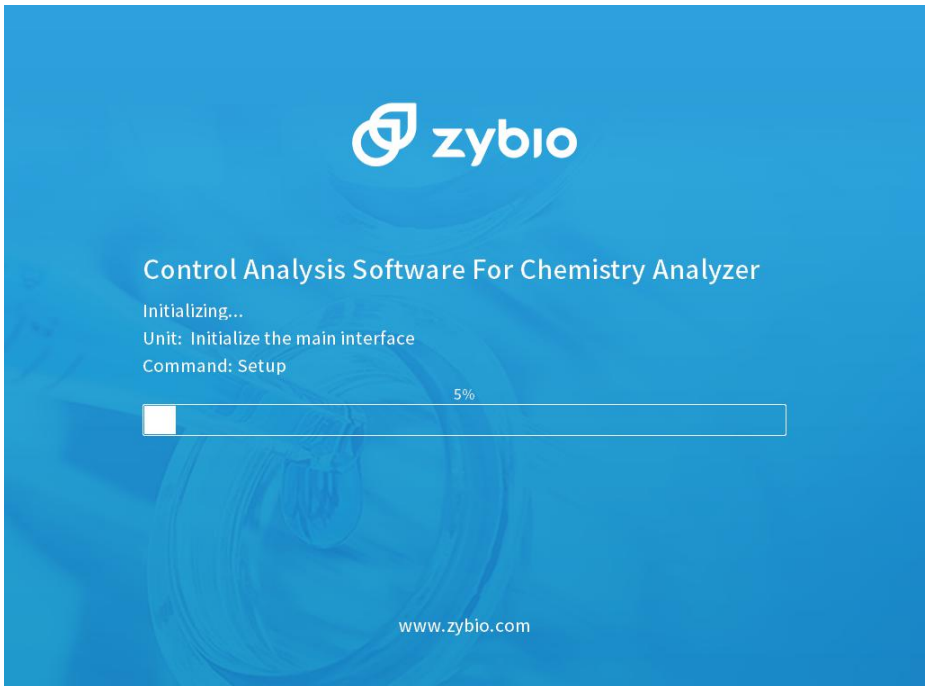
Content

1. Login

1.1 Input user name: Admin, password: zybio, click **Login** to enter the software;
Note: communication setup should be: S-PT # : COM2; BR: 19200

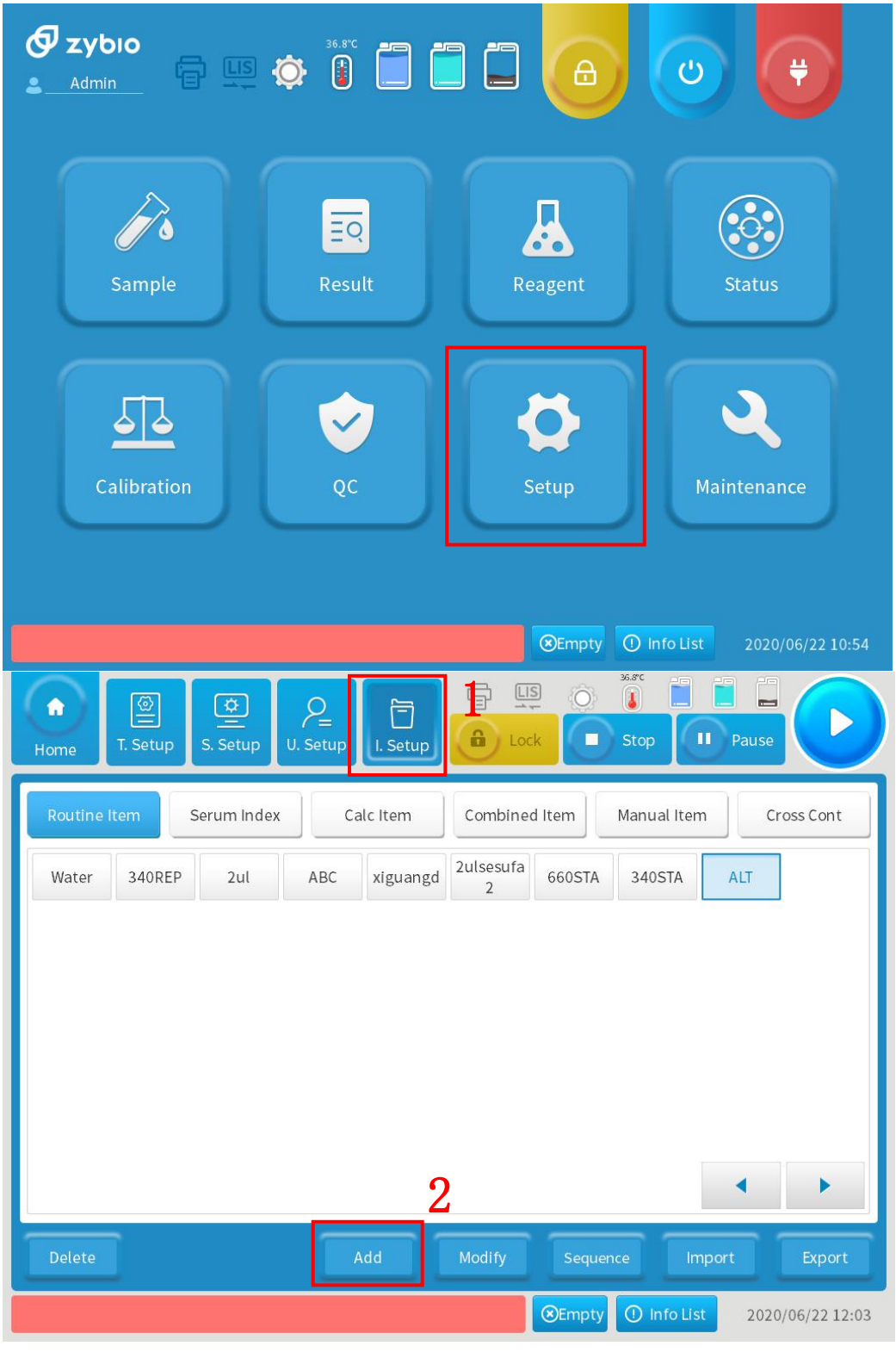


1.2 Initializing: about 3min.



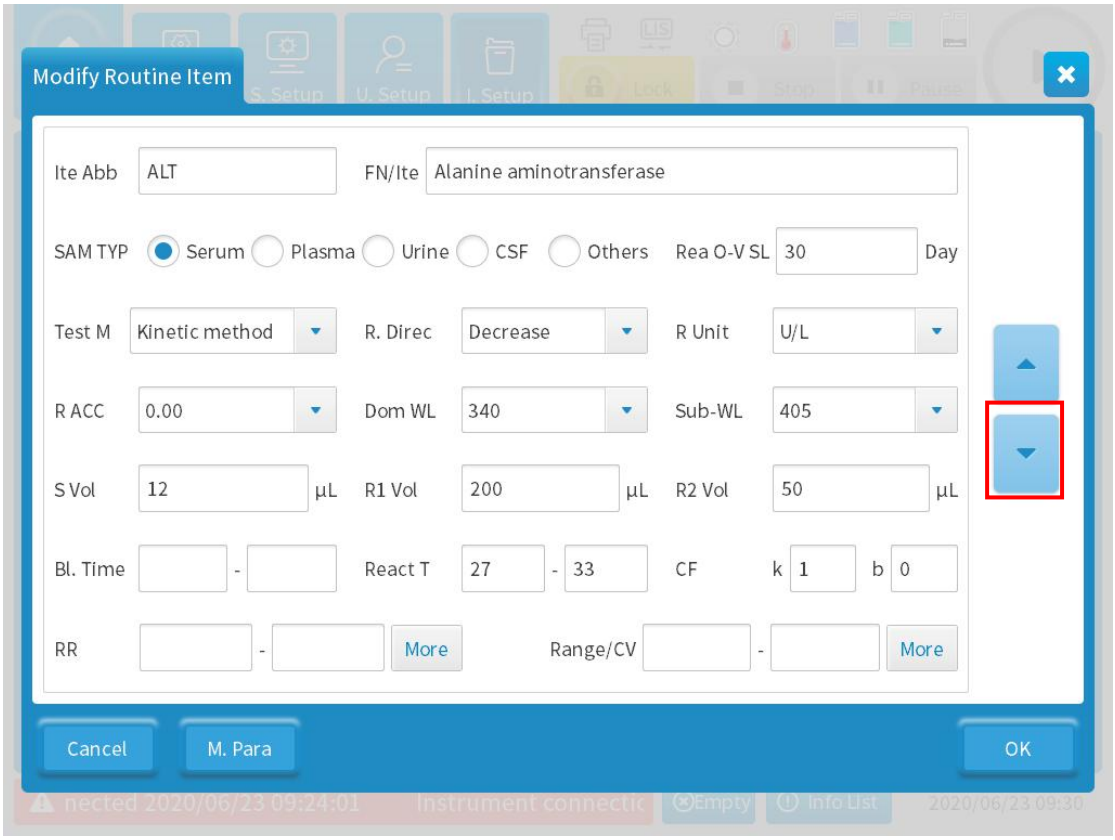
2. Item Setup

2.1 Click **Setup-I. Setup-Add** to add a new test item;



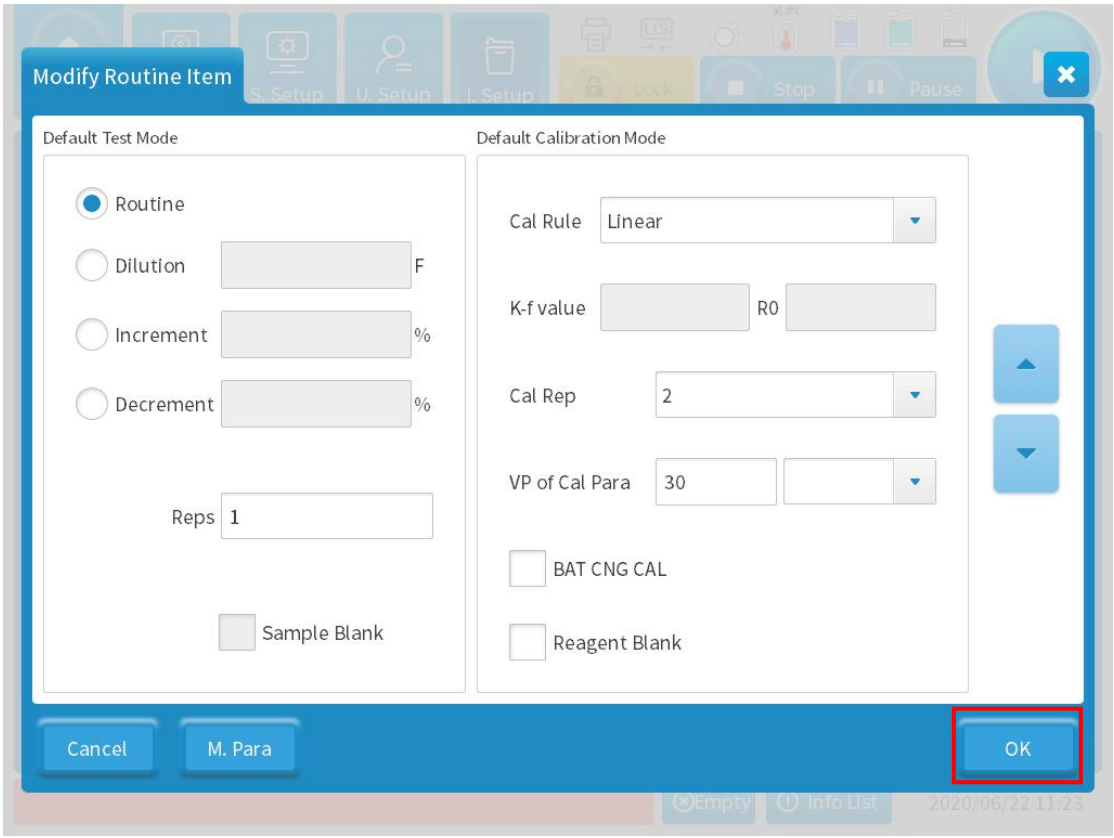
2.2 Fill in item parameters according to reagent instructions. Take ALT as an example:

1) **Ite Abb:** Abbreviation of the item: ALT;
2) **FN/Ite:** Full name of the item: Alanine aminotransferase;
3) **SAM TYP:** Sample type: Serum;
4) **Rea O-V SL:** Reagent open-vial shelf life: 30;
5) **Test M:** Test method:kinetic method;
6) **R.Direc:** Reaction direction: Decrease;
7) **R Unit:** Result unit: U/L;
8) **R ACC:** Result accuracy: 0.00;
9) **Dom WL:** Dominant wavelength: 340nm;
10) **Sub WL:** Sub-wavelength: 405nm;
11) **S Vol:** Sample volume: 12ul;
12) **R1 Vol:** Reagent 1 volume: 200ul;
13) **R2 Vol:** Reagent 2 volume: 50ul;
14) **Bl.Time:** Blank time: /;
15) **React T:** Reaction time: 27-33;
16) **CF:** Calculate factor: K:1;B:0;
17) **RR:** Reference range: 0-40/0-28;
18) **Range/CV:** /;



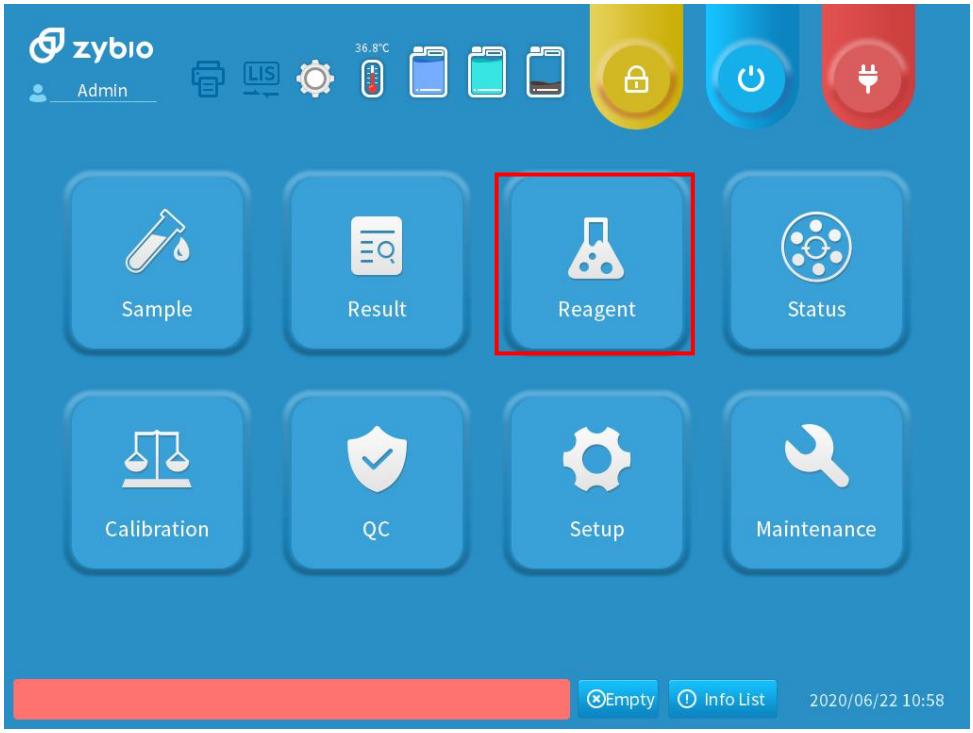
Click the arrow key to enter the routine item interface, and fill in the related information:

19) **Default Test Mode:** Routine;
20) **Default Calibration Mode:**
Cal Rule: Calibration rule: Linear;
Cal Rep: Calibration repetition: 2;
Click **OK** to finish item setting.

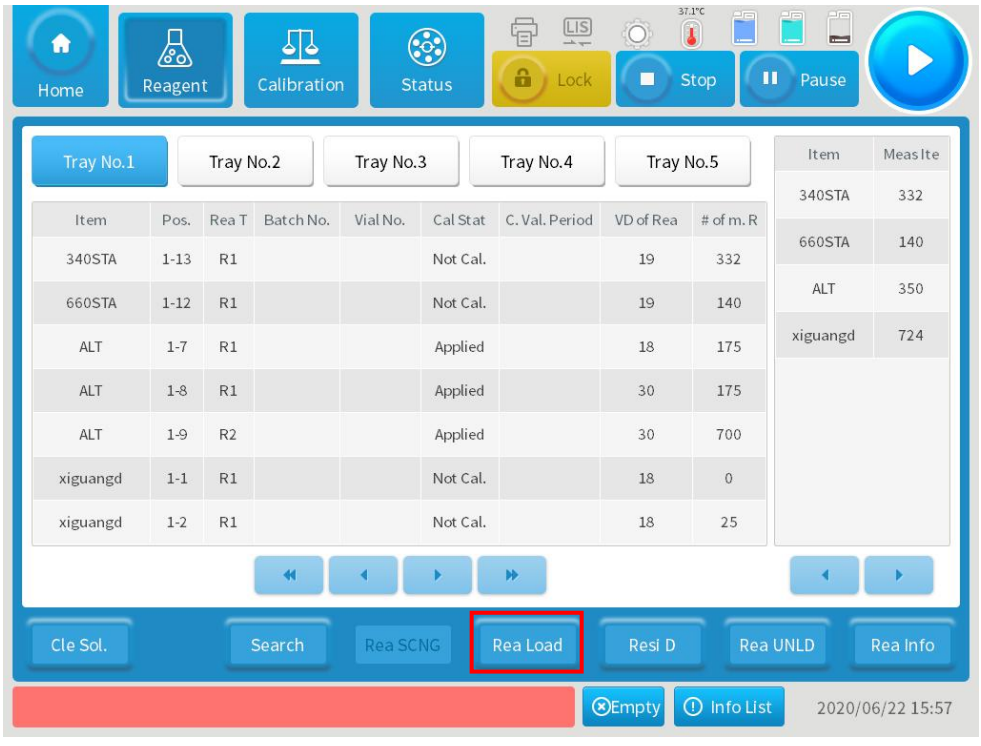

Modify Routine Item
S. Setup
U. Setup
I. Setup
Lock
Stop
Pause
Default Test Mode
Routine
Dilution
F
Increment
%
Decrement
%
Reps
1
Sample Blank
Default Calibration Mode
Cal Rule
Linear
K-f value
R0
Cal Rep
2
VP of Cal Para
30
BAT CNG CAL
Reagent Blank
Cancel
M. Para
OK
Empty
Info List
2020/06/22 11:23

3. Reagent Loading

3.1 Back to main interface and click **Reagent** to enter the reagent setting interface;

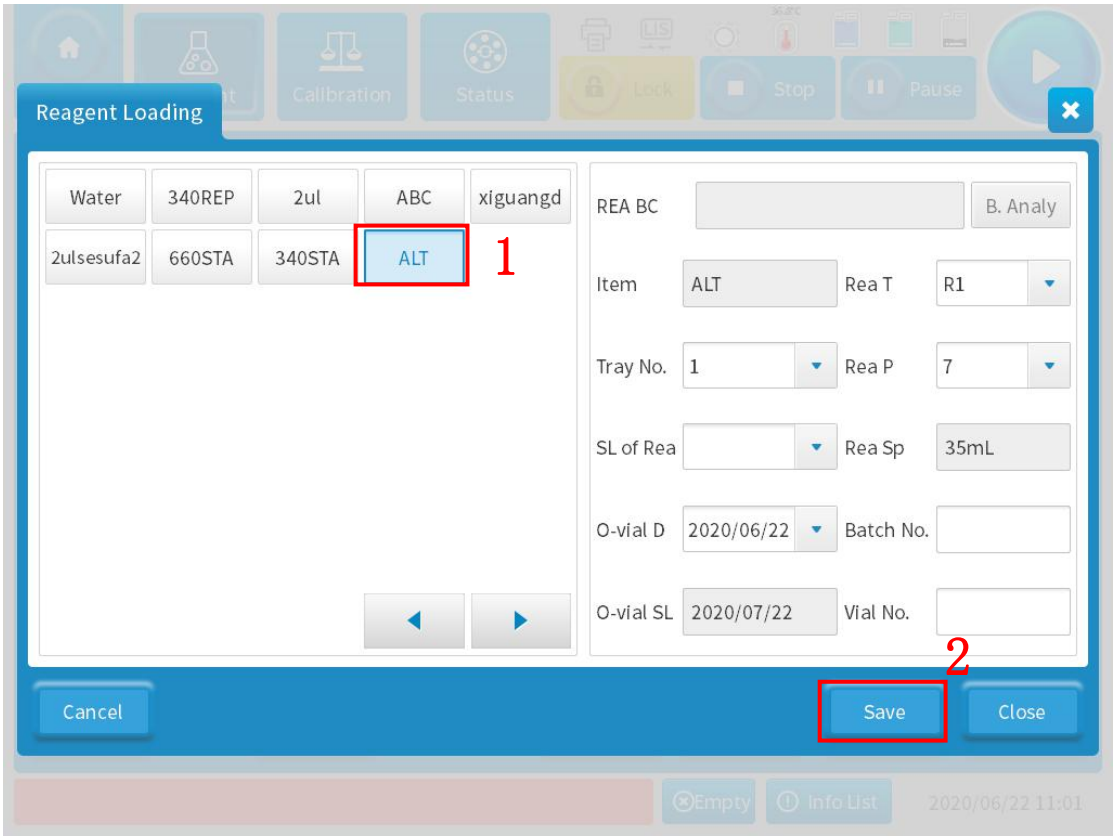


3.2 Click **Rea Load**;



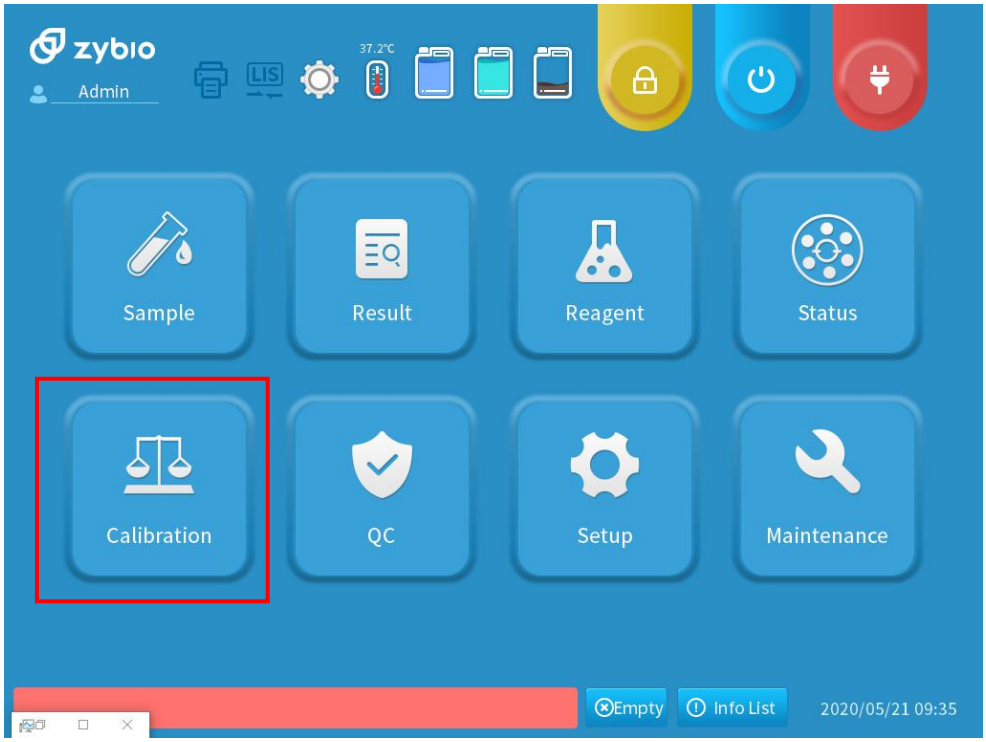
3.3 Choose an item and fill in the related information to load the reagent. Take ALT as an example:

1) Click the item to be loaded on the left of the interface: ALT;
2) **REA BC:** Click **B.Analy** on the right side and scan the bar-code of the reagent through scanner or input the bar-code number manually(suitable only for closed analyzer);
3) **Rea T:** Reagent type: R1/R2;
4) **Tray NO.:** Reagent Tray No.: Input related tray No.;
5) **Rea P:** Reagent position: Select a position for reagent. Position No.1-19 are for reagent with 35mL; Position No. 21-39 are for reagent with 20mL. Put the reagent into the corresponding position after selecting;
6) **SL of Rea:** Enter shelf life of reagent;
7) **Rea Sp:** Reagent specification. It will show automatically after selecting reagent position and cannot be modified;
8) **O-vial D:** Select open-vial date of the reagent. Default date is the day when reagent is loaded;
9) **O-vial SL:** Reagent open-vial shelf life. It will show automatically according to the open-vial date of the reagent and cannot be modified;
10) **Batch No.:** Reagent batch No.: Fill in it according to reagent instructions or leave it blank;
11) **Vial No.:** Reagent vial No.: Fill in it according to reagent instructions or leave it blank.
Click **Save** at the bottom to finish the reagent loading.



4. Calibration

4.1 Back to the main interface and click **Calibration**;

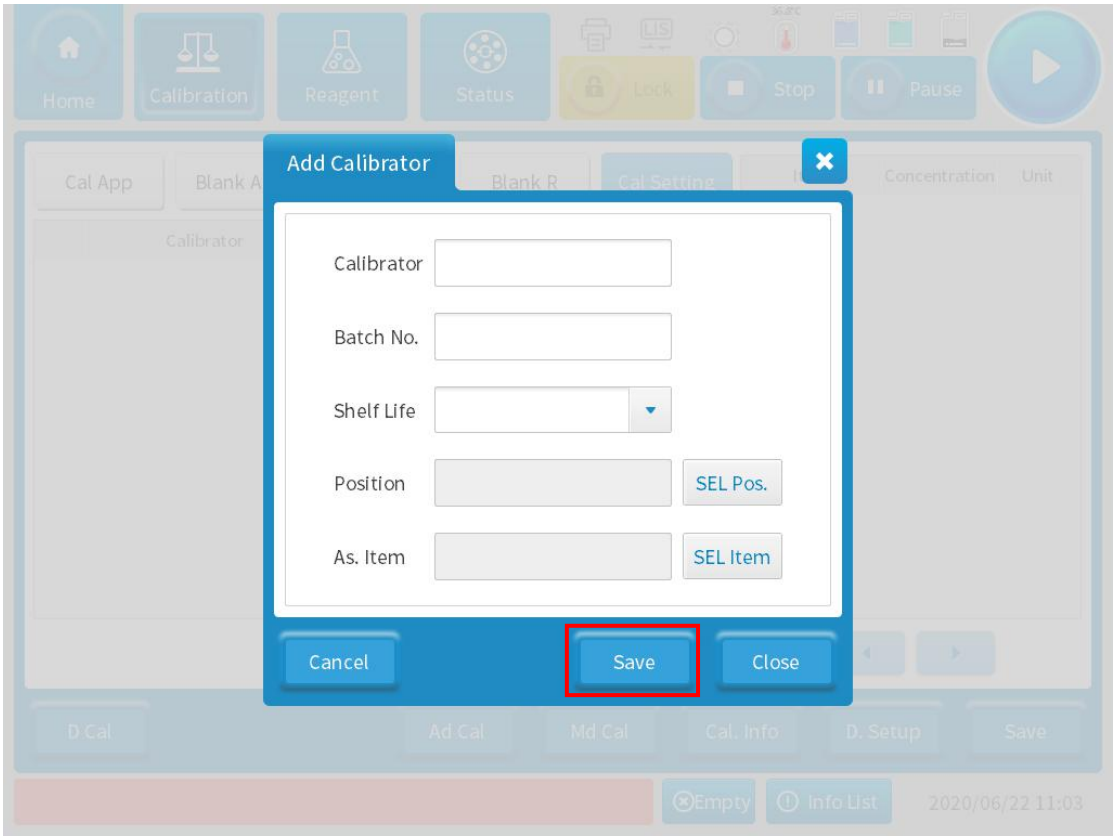


4.2 Click **Cal Setting-Ad Cal** to add a new calibrator;

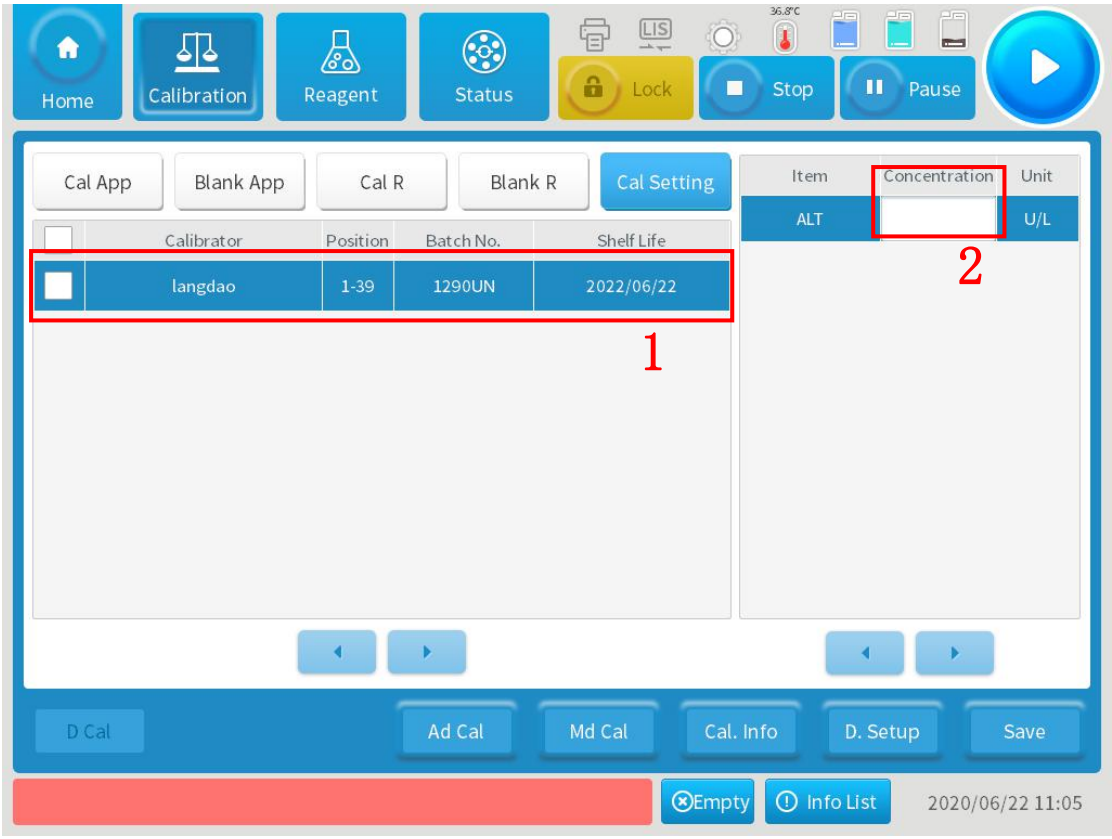
4.3 Fill in the related calibrator information, which includes the following:

1) **Calibrator:** Calibrator name;
2) **Batch No.:** Batch No. of calibrator;
3) **Shelf Life:** Select calibrator shelf life according to instructions;
4) **Position:** Click **SEL Pos.** on the right side and choose position for calibrator in the pop-up interface;
5) **As.Item:** Click **SEL Item** on the right side and choose associated item of the calibrator in the pop-up interface;

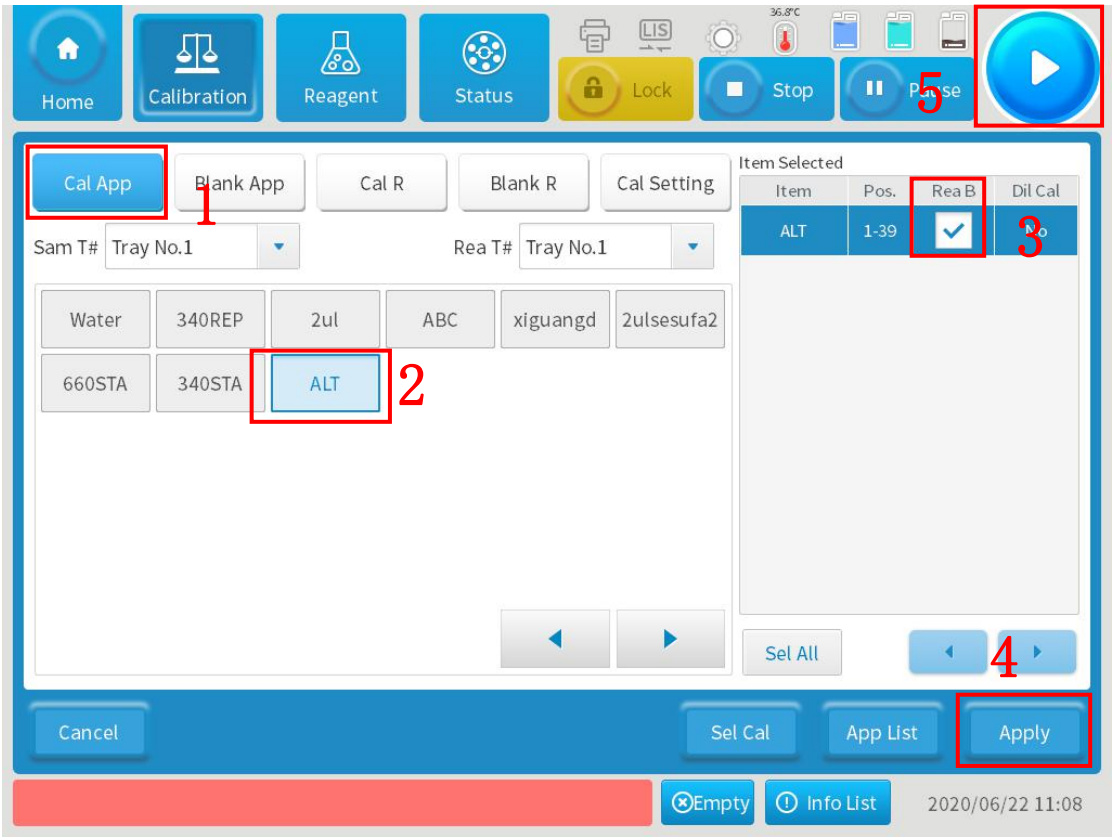
Click **Save** and put the calibrator at the corresponding position;



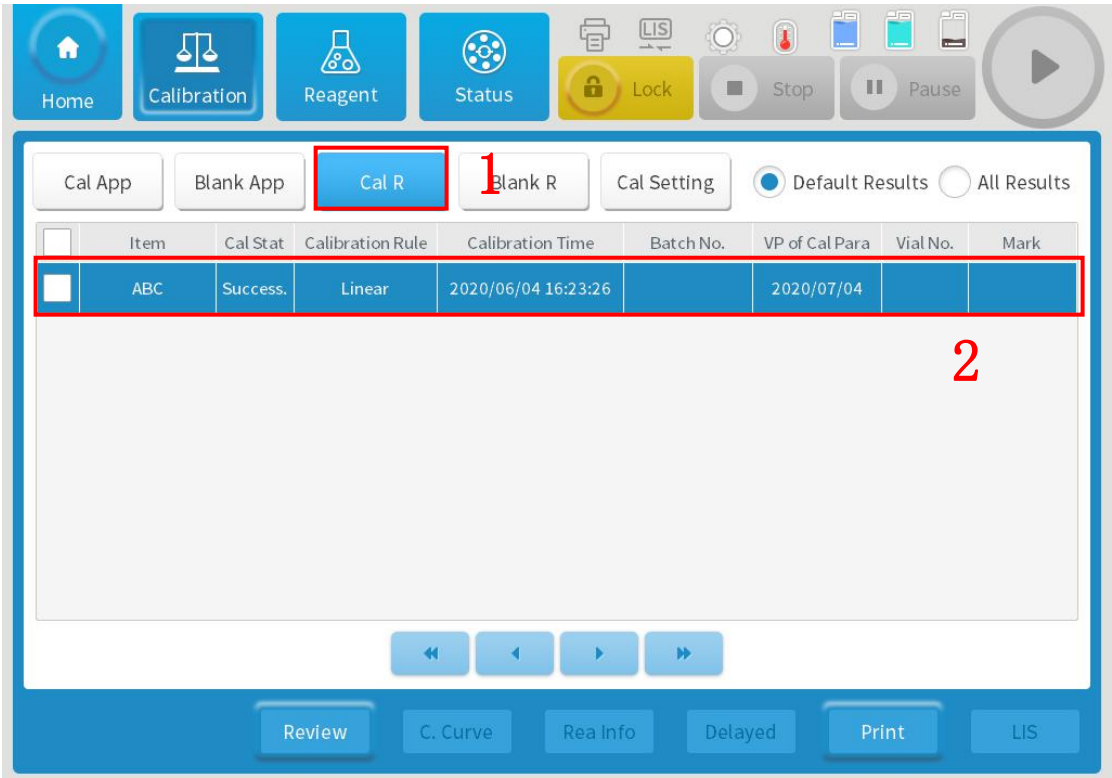
4.4 Choose the related calibrator on the left side of the interface and input the calibrator concentration on the right side;



4.5 Click **Cal APP** to apply for calibration, choose related item, such as ALT and check under the **Rea B.** Put pure water in the No. 40 of the reagent-sample tray, click **Apply** at the bottom right and click the start key on the top right to start calibration;

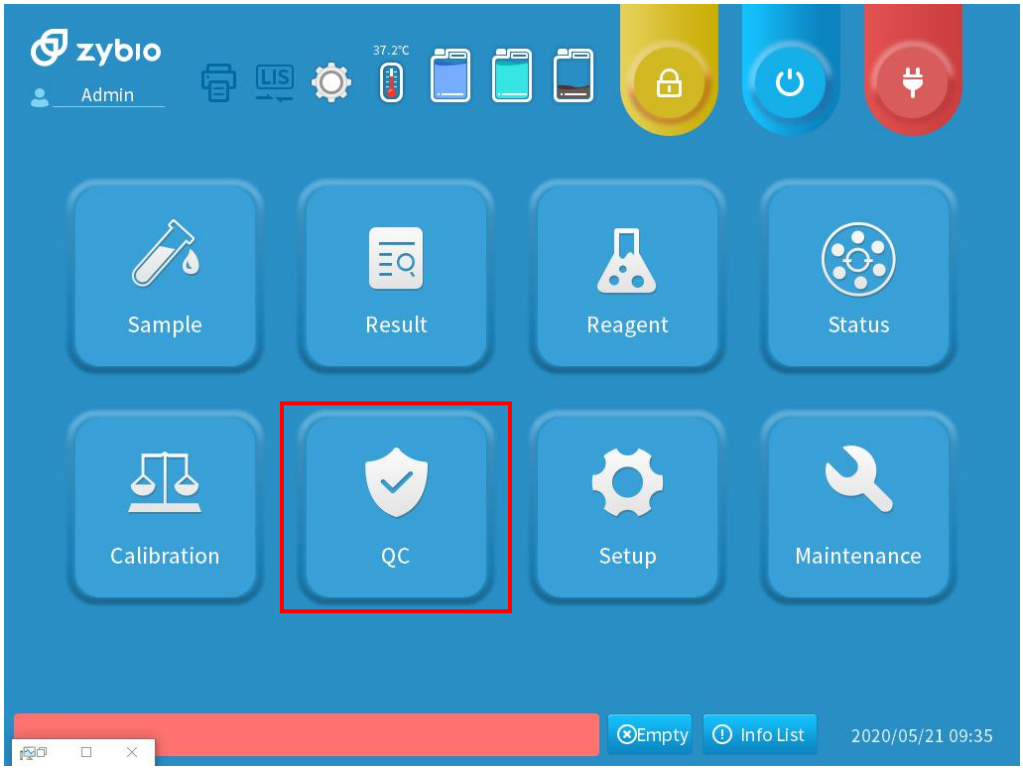


4.6 Click **Cal R** after calibration to enter the calibration result review interface. Choose the related calibrator and check the calibration result.

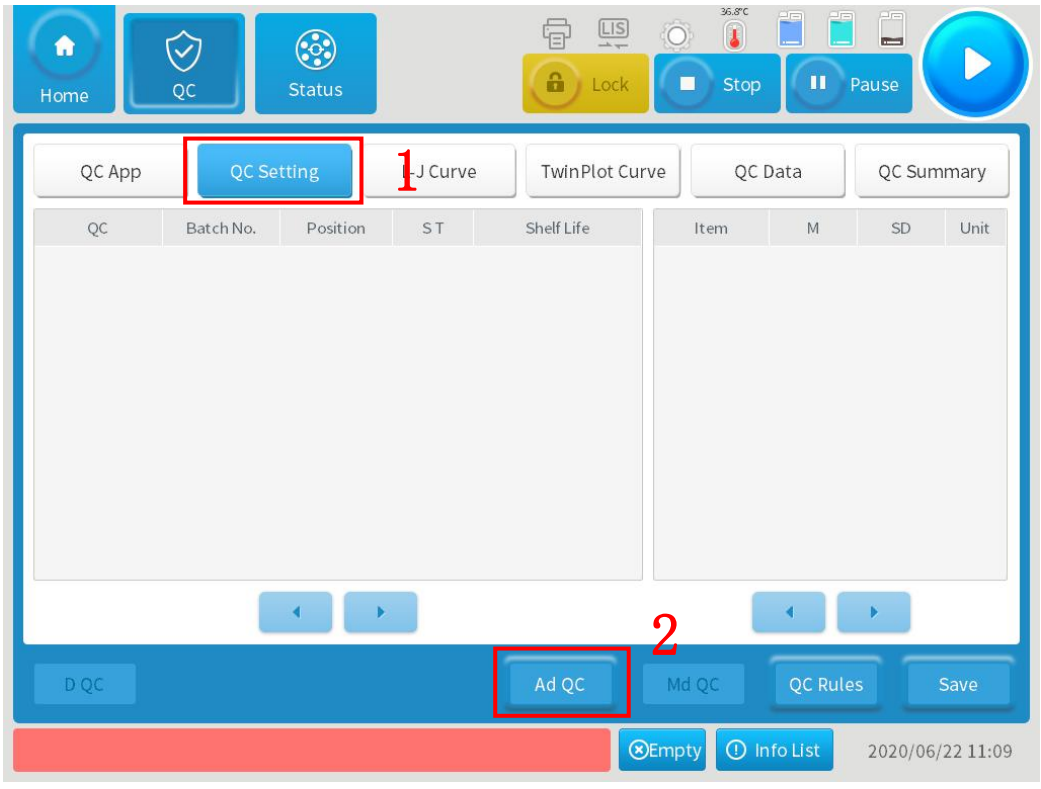


5. QC

5.1 Click **QC** on the main interface to enter the QC interface;

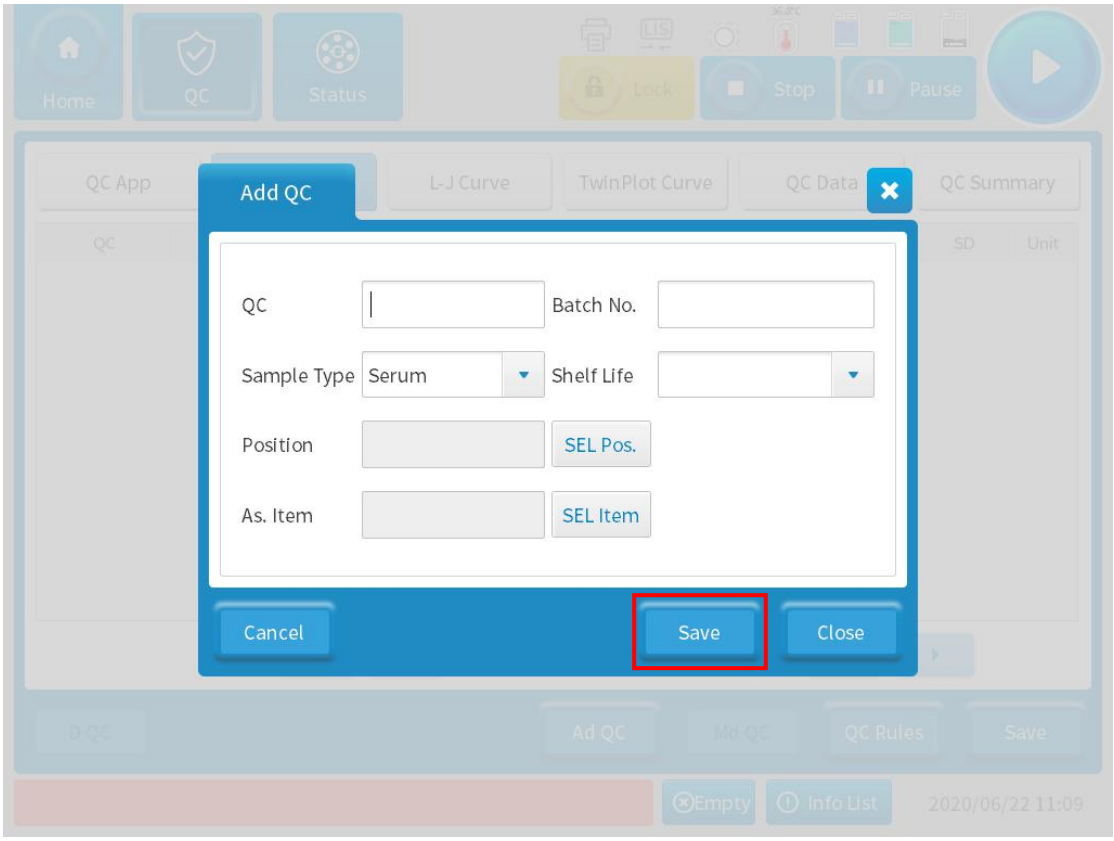


5.2 Click **QC Setting-Ad QC** to add a new QC;

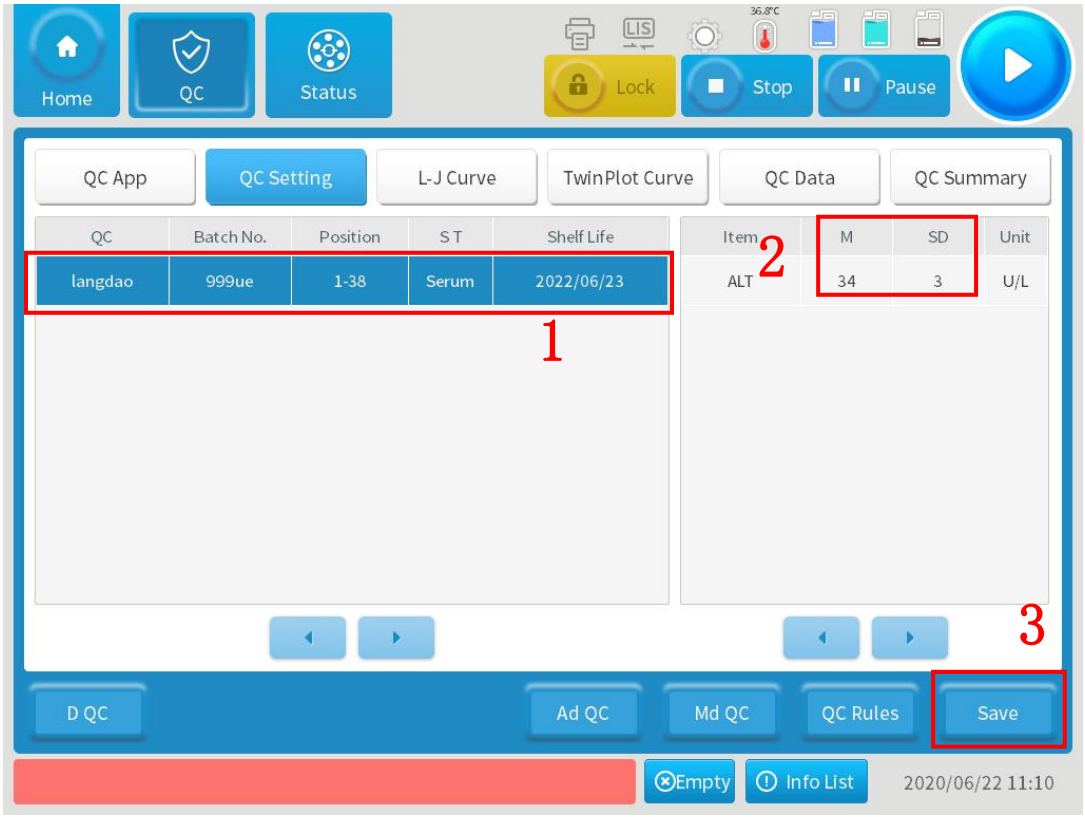


5.3 Fill in QC information in the pop-up interface, which includes the following:

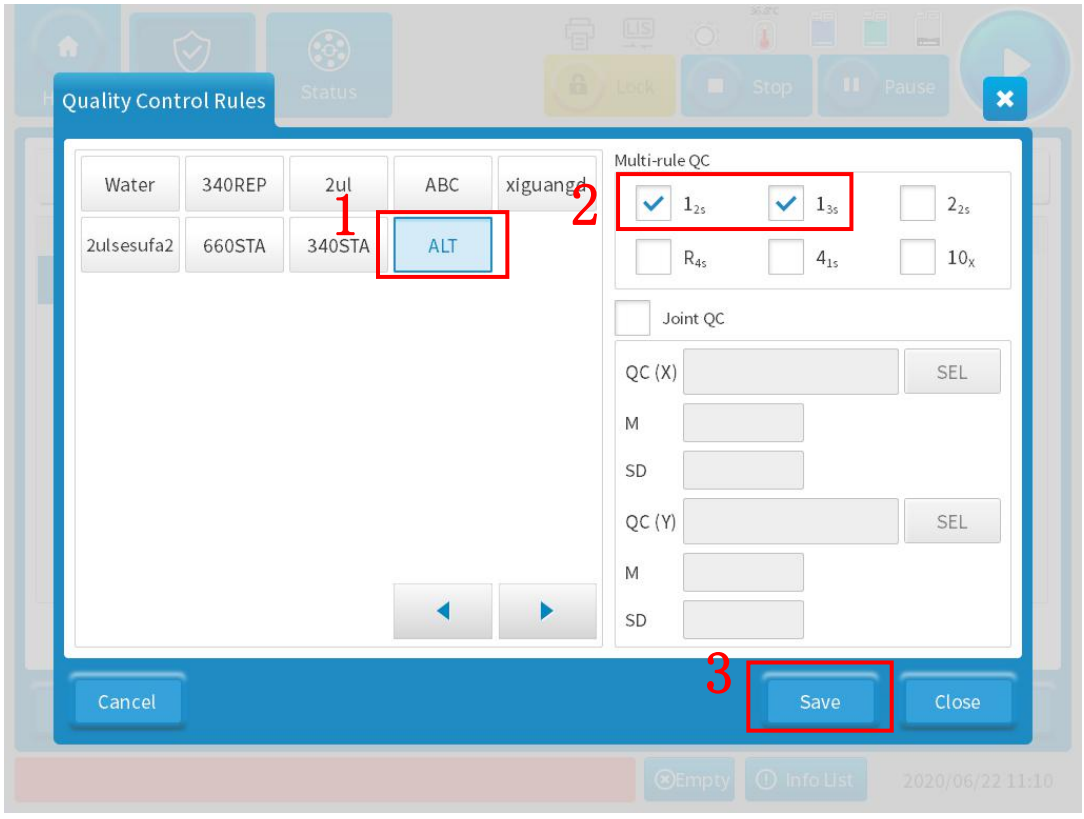
1) **QC:** QC name;
2) **Batch No.:** Batch No.of QC;
3) **Sample Type:** Choose sample type, default sample type is Serum;
4) **Shelf Life:** Choose shelf life of QC;
5) **Position:** Click **SEL Pos.** on the right side and choose position for QC in the pop-up interface;
6) **As.Item:** Click **SEL Item** on the right side and choose associated item of the QC in the pop-up interface;
Click **Save** and put the QC at the corresponding position;



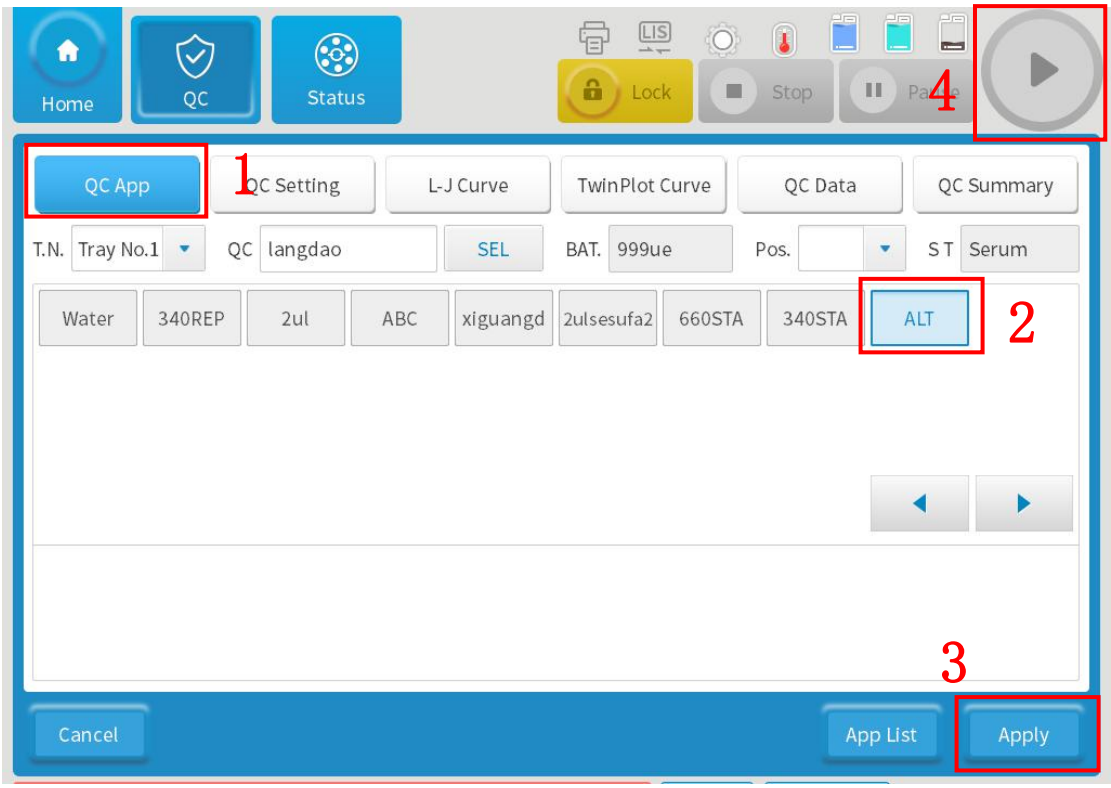
5.4 Choose the related QC on the left side of the interface and input the target QC concentration and standard deviation under the M and SD respectively on the right side, and click **Save**;



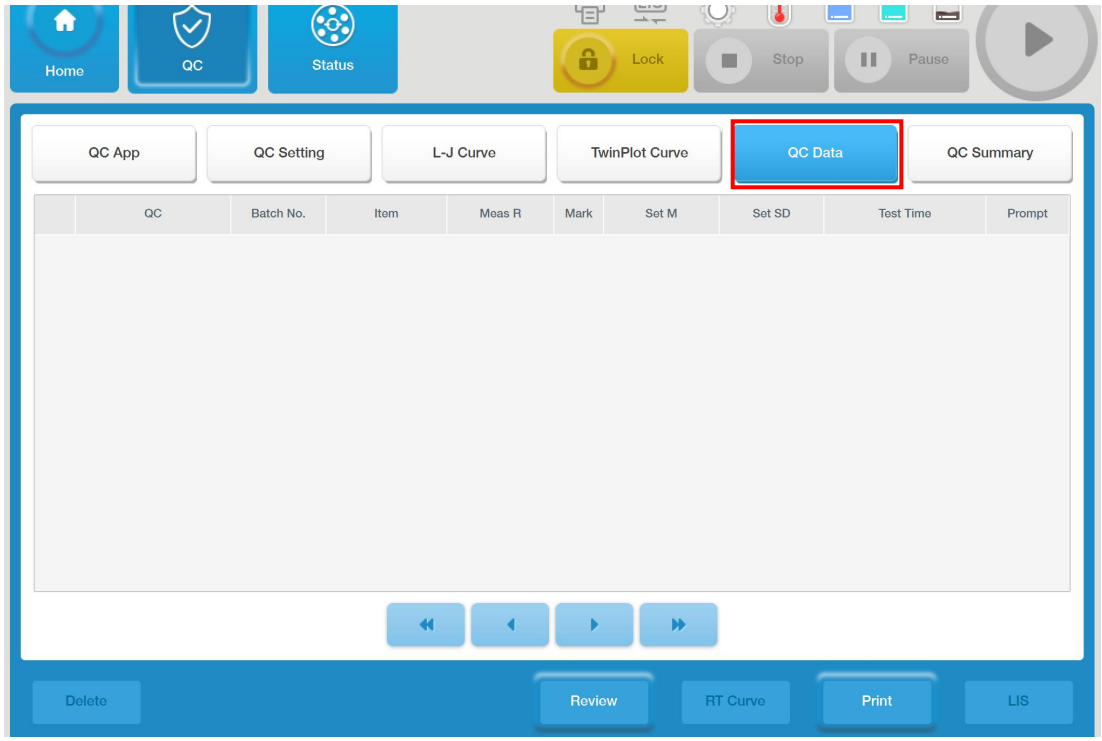
5.5 Click **QC Rules** to set QC rules in the pop-up interface. Choose the related QC on the left side of the interface and check 1_{2s}, 1_{3s} on the right side and click **Save**;



5.6 Click **QC App**, choose corresponding QC item and click **Apply** at the bottom right and then click the start key at the top right to start QC test;



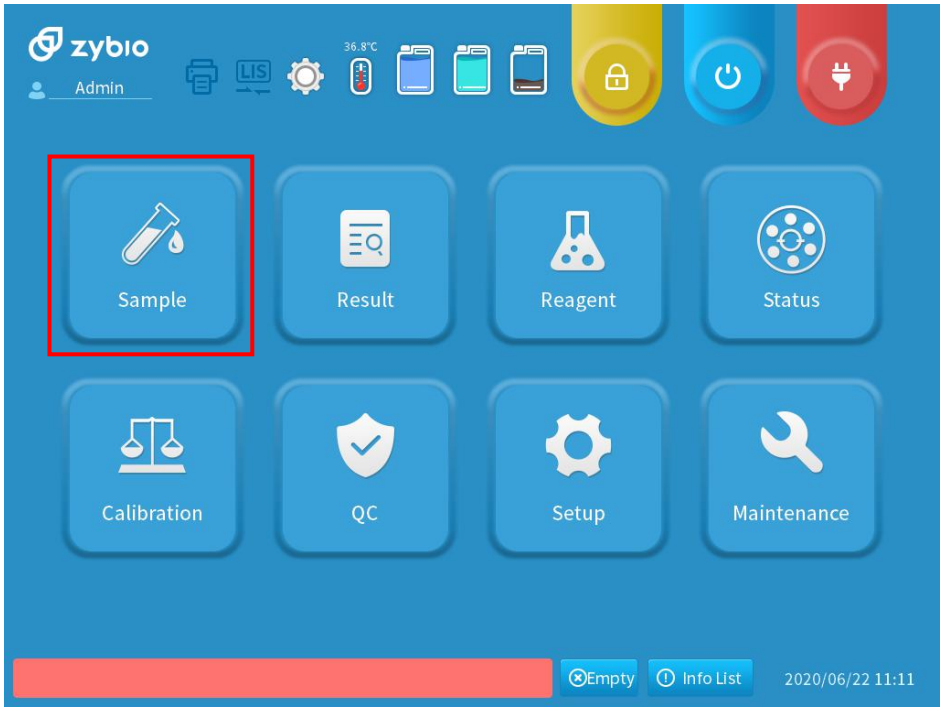
5.7 Click **QC Data** to review the QC result after QC testing. Sample test can be performed once the QC result is in control.



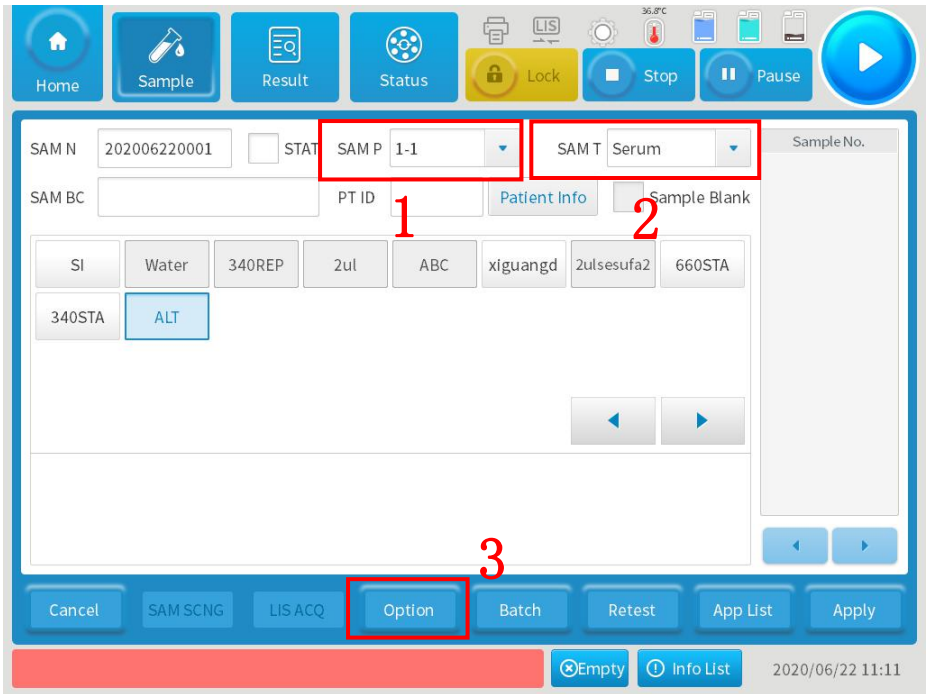
6. Sample test

Sample test can be performed after calibration and QC

6.1 Click **Sample** on the main interface to enter the sample application interface;

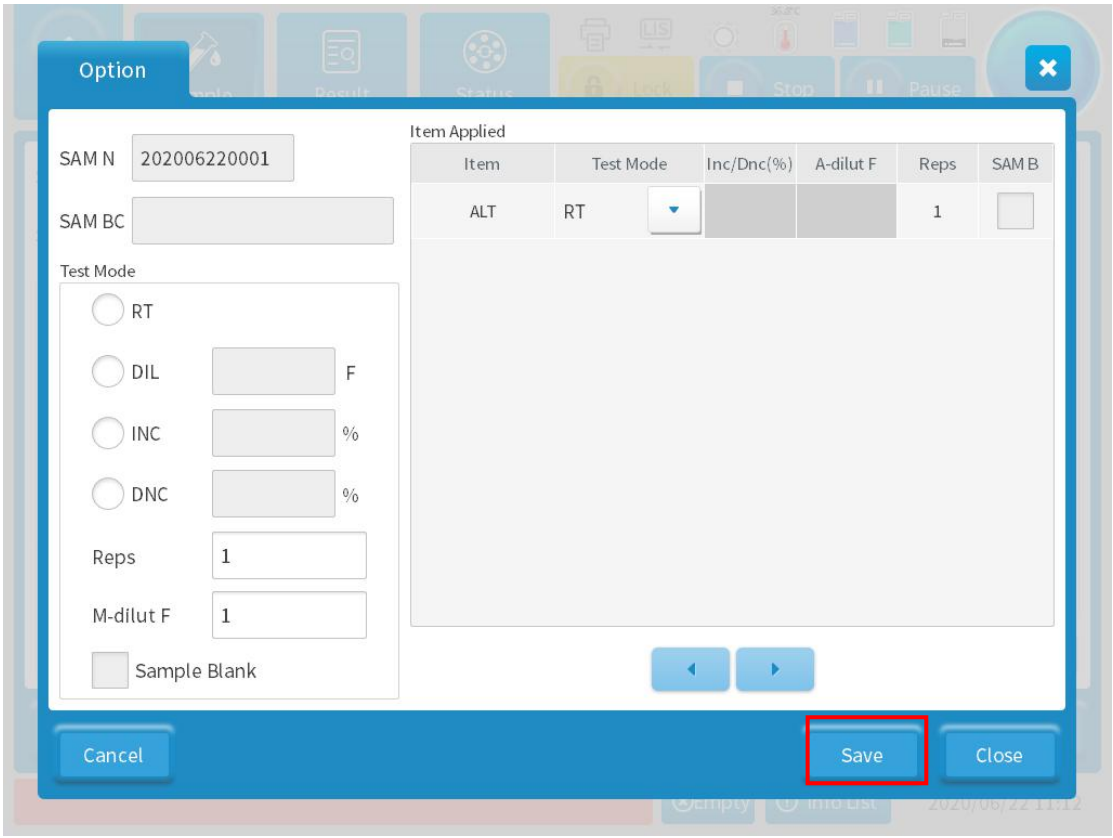


6.2 Choose sample position and type at SAM P and SAM T respectively. Put the sample at the corresponding position of the reagent-sample tray. Choose the test item on the interface. Click **Option** below to set the number of tests, if necessary;

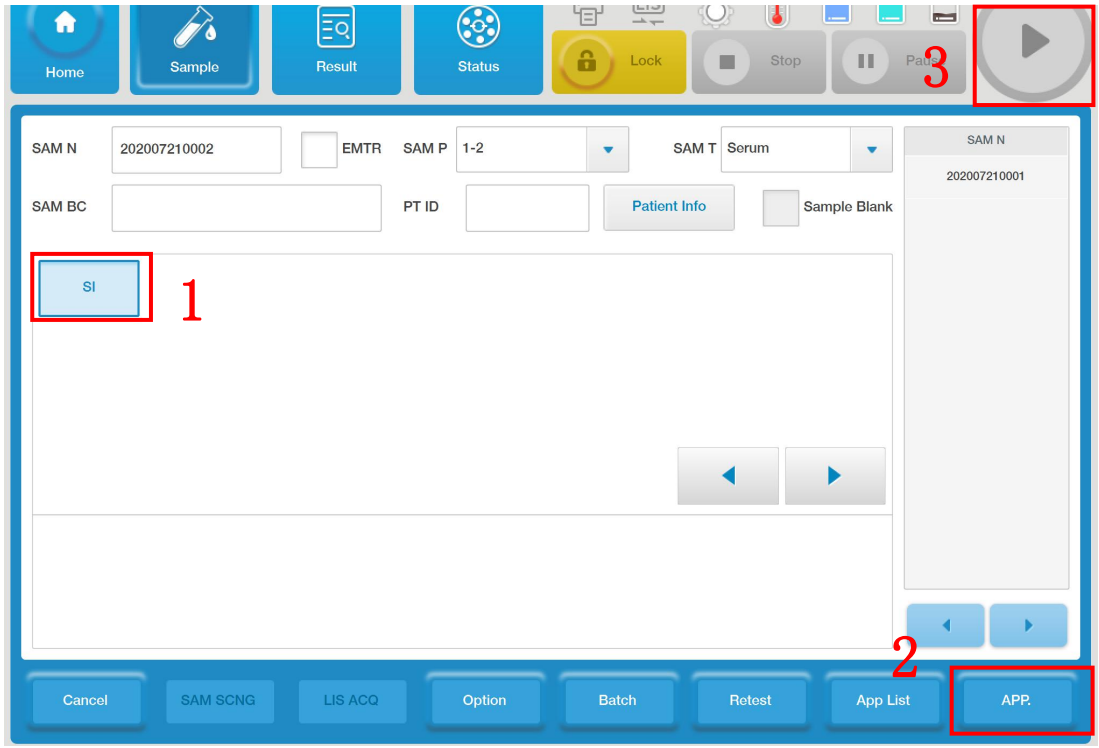


6.3 As shown in the picture below, the method for filling in the parameters of the sample application setting is as follows:

SAM N: Sample number, which will show automatically and cannot be modified;
SAM BC: Sample bar-code, input it manually, fill in it through a scanner, or leave it blank;
Test Mode: Test mode, which will show automatically and cannot be modified;
Reps: Enter the number of repetitions if multiple tests are required;
M-dilut F: Manually dilution ratio, default is 1;
Sample Blank: Sample blank, which will show automatically after item setting and cannot be modified;
Click **Save** to save the sample parameters application after setting;

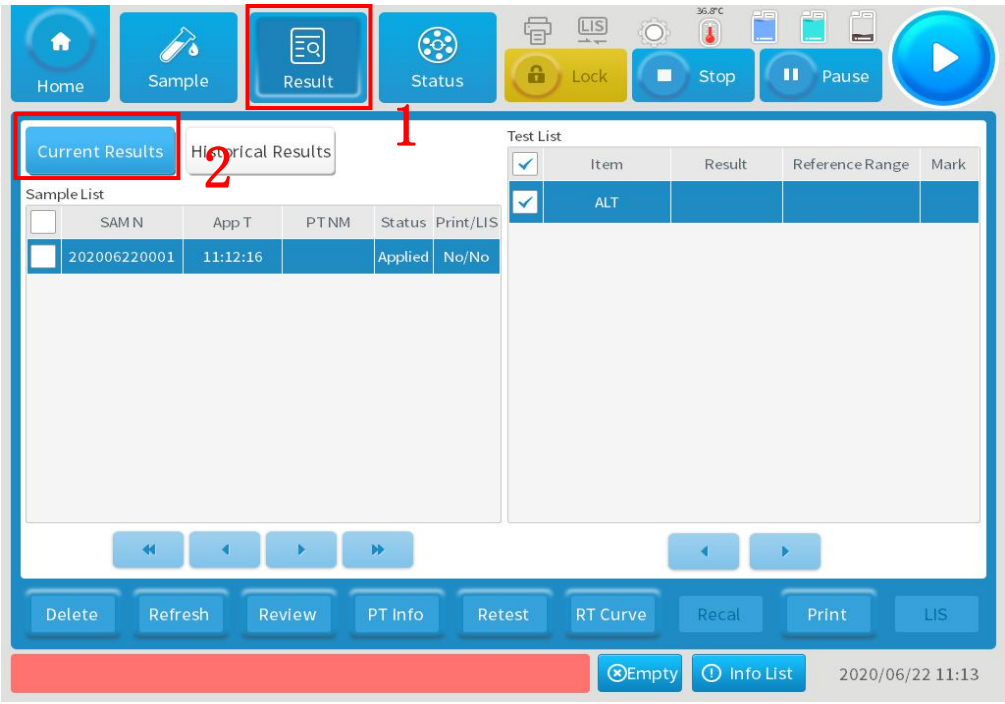


6.4 Choose an item and click **APP.** below to apply for the sample test, and then click the start key on the upper right corner;
Note: Make sure the reagent, sample, detergent and diluent are placed in the corresponding position in the reagent-sample tray before starting the test.

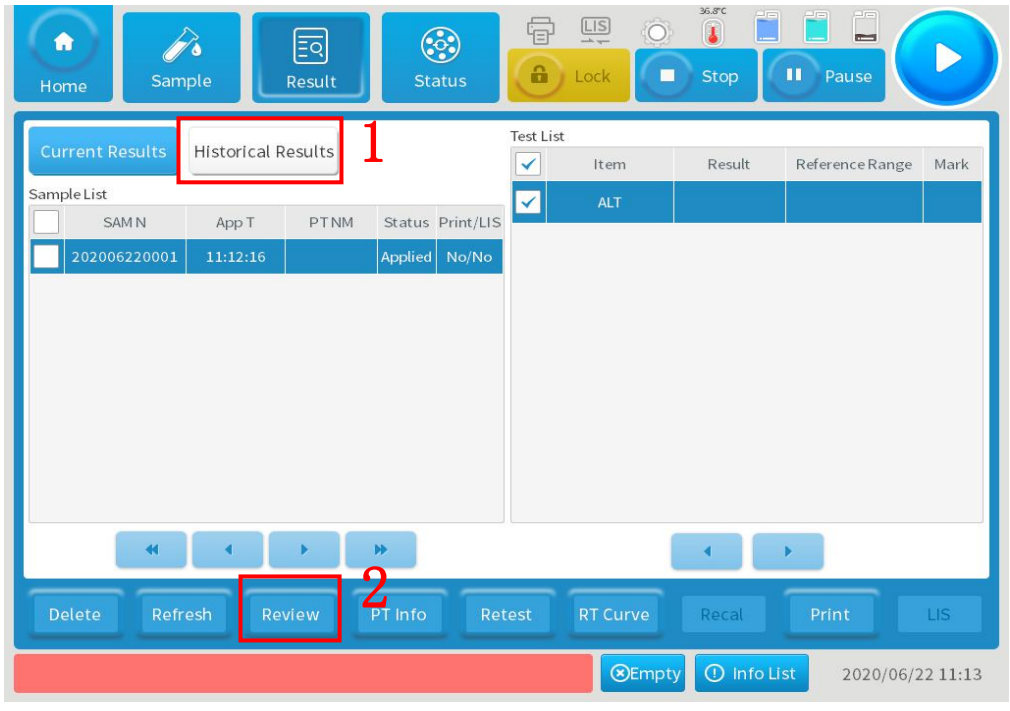

Home
Sample
Result
Status
Lock
Stop
Pause
3
SAM N
202007210002
EMTR
SAM P
1-2
SAM T
Serum
SAM BC
PT ID
Patient Info
Sample Blank
SI
1
SAM N
202007210001
2
Cancel
SAM SCNG
LIS ACQ
Option
Batch
Retest
App List
APP.

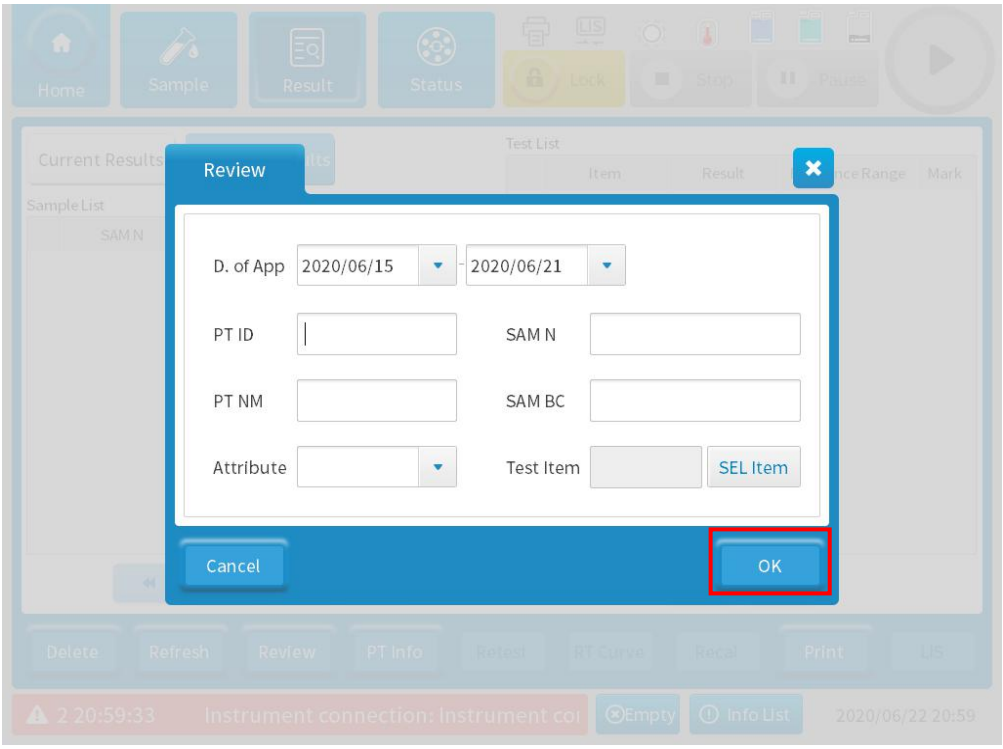
7. Review and Print of the Test Result

7.1 Click the **Result** above to view the results after the test, click **Current Results** to query the current results, and click the sample information to view the corresponding test results on the right;



7.2 To query historical results, click **Historical Results-Review** and fill in the date range, patient ID, sample number, patient name, sample type, etc. you want to query in the pop-up interface and click **OK**;





7.3 To print the sample test results, click **Print**, select the results to be printed in the pop-up interface, choose whether to ignore the printed samples or whether to print in two columns; click **Sequence** to change the printing order, click **Preview** to preview, click **OK** to print after confirmation.