

## Standard Operating Procedures (SOP) of ELISA Calculating Software

Four parameter logistic curve fit (4-PL Curve Fit) is applicable to fit BlueGenen Biotech's Sandwich ELISA and Competitive ELISA kits. This SOP is specially drawn up to show our customers how to use "ELISA Calc" software (see download link below).

1. **Data Reading:** Export the absorbance values (OD values) of samples and standards read at 450nm from the Microplate Reader, and save them in excel format.
2. **Data Sorting:** Fill in the concentrations (Con) and ODs of the Standards in two separate coloums like the picture below. **Copy** the data which are in red color.

	Con	OD
Standard A	0	1.918
Standard B	0.5	1.582
Standard C	1	1.182
Standard D	2.5	0.731
Standard E	5	0.373
Standard F	10	0.215

3. **Make the Standard Curve:**

Step 1: Open the software "ELISA Calc", you can see an interface like below.  
(We make several marks for you to follow easily.)

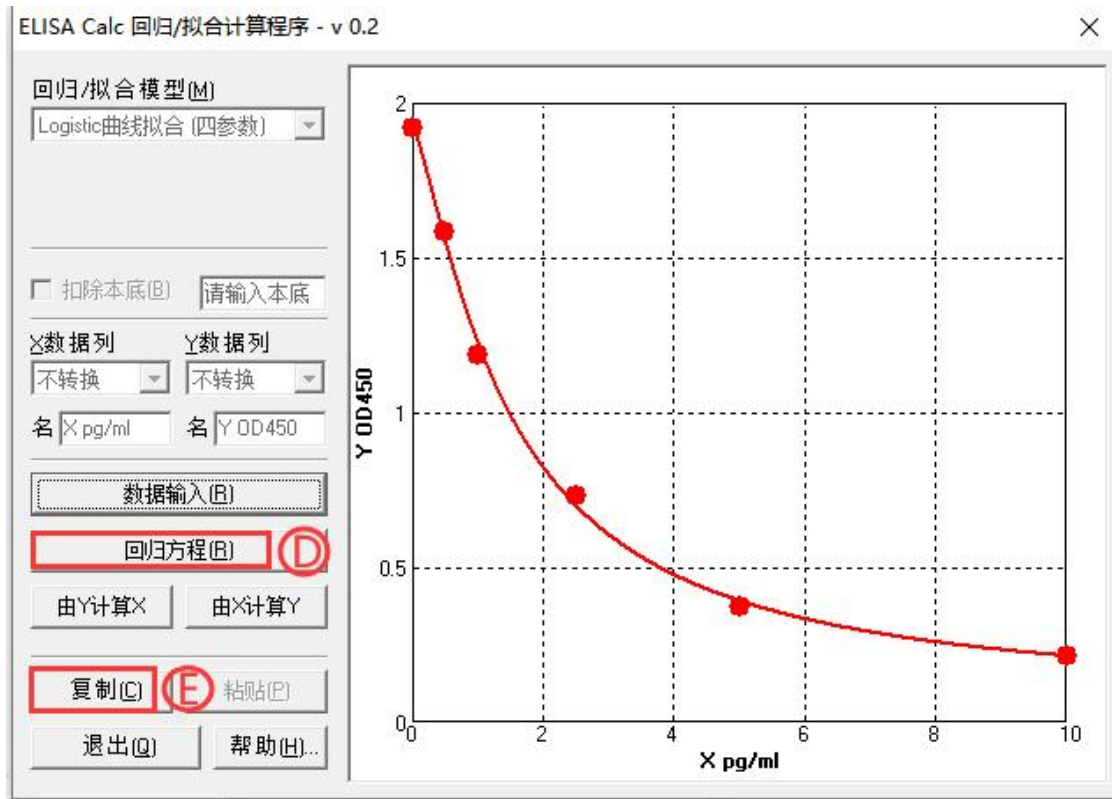


Step 2: Choose ①, the marked words means the regression model “4-PL Curve Fit”.

Step 3: Click ②, the marked words means “paste”.

Step 4: Click ③, the marked words means “Regression/Fitting”.

Then you will have a automatically generated standard curve graph like the below picture.



The words marked with ① means “Regression Equation”, if click, you will find the equation of the standard curve.

The words marked with ② means “Copy”, click this and you can copy the standard curve graph.

#### 4. Calculate Samples' Concentration:

Step 1: Copy the OD values of the sample exported in Excel worksheet first.

Step 2: Click ③, the marked words means “calculate Y from X”.

Step 3: Click ④, the marked words means “paste”, and you will get the concentration of the samples.

Step 4: Click ⑤, the marked words means “Copy”, then you can copy the data to your excel file.



5, You may also contact our technical support [tech@bluegene.cc](mailto:tech@bluegene.cc) to help with your data analysis.

