

Mini kit- Less sample, higher sensitivity

Elisa is a rapid, sensitive, accurate and reliable quantitative analysis method which is a good tool for researchers. While sometimes it's just hard to get enough samples, such as blood samples, or some tissue homogenate, etc. Now Cloud-Clone has developed Mini Elisa kits which require less samples, while maintain the procedure and experimental time and the result is same or even better than conventional kits. Now let's take SEJ365Hu(ELISA Kit for Catechol-O-Methyltransferase (COMT)) and MEJ365Hu(Mini ELISA Kit for Catechol-O-Methyltransferase (COMT)) as an example to compare the whole process.

The procedure is as following:

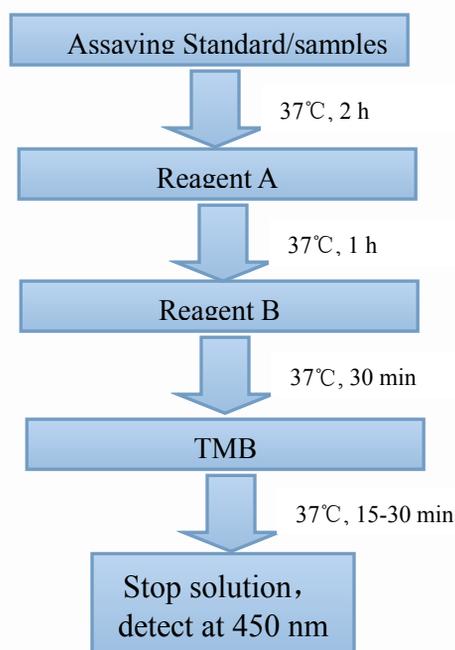


Figure 1 The procedure of a Mini/ Normal kit

Table 1 The assaying volume of each step in a Mini/ Normal kit

	SEJ365Hu (μ l)	MEJ365Hu (μ l)
Standard/Sample	100	50
Reagent A	100	50
Reagent B	100	50
TMB	100	50
Stop solution	50	25

At last, in order to compare those two kits, the researcher in our lab design an experiment. The experimental condition and samples of those two kits are totally the

same. The raw data of the two kits is shown as followed.

Table2 Plate layout of two kits

	1	2
A	Blank	tissue 1
B	STD1(0.156ng/ml)	tissue 2
C	STD2(0.312ng/ml)	tissue 3
D	STD3(0.625ng/ml)	tissue 4
E	STD4(1.25ng/ml)	cell lysate 1
F	STD5(2.5ng/ml)	cell lysate 2
G	STD6(5ng/ml)	cell lysate 3
H	STD7(10ng/ml)	cell lysate 4

Table 3 The results of MEJ365Hu

25'	1	2
A	0.049	0.611
B	0.086	0.443
C	0.174	0.945
D	0.315	0.378
E	0.532	0.518
F	0.971	0.689
G	1.679	2.238
H	2.753	0.201

Table 4 The results of SEJ365Hu

25'	1	2
A	0.053	0.662
B	0.094	0.504
C	0.215	1.004
D	0.322	0.412
E	0.593	0.563
F	1.094	0.745
G	1.686	2.287
H	2.774	0.237

When analyzing the two data, the linearity of mini kit is 0.9999, and the linearity for normal kit is 0.9991. Moreover, after calculating samples' concentration, we found that the differences between them is under 10%.

Above all, mini kit could detect samples as same as conventional kit while cost less samples and reagents. Then for customers, if their samples volume are very cherish, and they have to test a large number of samples, then the mini kit would be oen of their best choices.

For more information, please enter <http://www.cloud-clone.us/>.