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Varicella zoster virus(VZV) Quantitation Kit(ELISA)

Cat#17-0106

【**Name**】Varicella zoster virus(VZV) Quantitation Kit(ELISA)

【**Application**】Detection of herpes zoster/varicella antigen content in samples is only used for outside donor scientific research.

【**Principle**】This product adopts the principle of double antibody sandwich method. The anti-herpes zoster/chickenpox GE-HIS protein monoclonal antibody is coated with enzyme-linked reaction plate, the sample to be tested is added for reaction, the unbound substance is washed and removed, and another mouse monoclonal antibody labeled by HRP is added to form an antibody-antigen-enzyme-labeled antibody complex. The content of antigen in the sample is indicated by the degree of TMB color development.

【Materials and reagents provided】

1. Coated plate, 8 holes x 12 pieces
2. Detection of antibody (100x), 120μL×1 tube
3. Casein-Na, 0.5g/ bag ×1 bag
4. 20×PBS, 50mL×1 bottle
5. 20×PBST, 50mL×1 bottle
6. TMB Substrate A, 7mL×1 bottle
7. TMB Substrate B, 7mL×1 bottle
8. Termination solution, 7mL×1 bottle
9. Sealing plate film, 2 pieces
10. Instructions, 1 copy

【Storage】

Detect antibodies (100x) stored at -15 to -20℃; Other components are stored at 2~8℃ away from light, valid for 12 months.

【Experimental process】

1. Balance: Move the required reagent to room temperature (18~25℃) to balance for 30 minutes.

2. Solution preparation：

① 1× buffer: Take a bottle of 20×PBS, dilute it to 1000mL with deionized water, mix it well for reserve use.

② Sample diluent (0.5%Casein-Na) : Completely dissolve Casein-Na (0.5g/ bag) into 100mL of prepared solution and mix thoroughly for use.

③ Working liquid for antibody detection: Calculate the volume of working liquid required for the experiment, take an appropriate amount of sample diluent (0.5%Casein-Na) prepared by ② for antibody detection, dilute it 100 times, and mix it well for use.

④ Washing solution (1×PBST) : Take a bottle of 20×PBST, dilute it to 1000mL with deionized water, and mix it well for reserve use.

3. Sample addition: Take the coated plate out of the sealed bag, add the prepared standard into the hole, and dilute the sample with the sample diluent (0.5%Casein-Na) prepared by ② according to the concentration. 100μL/ well, at the same time, negative control was set, and the sealing plate was sealed with sealing plate film and placed in a constant temperature shock incubator at 37℃, 200 ~ 300rpm, and incubated for 60 minutes.

4. Washing: discard the liquid in each hole, fill the microhole (350μL/well) with the washing solution (1×PBST), and then discard the liquid in the hole after 30 seconds; Repeat 3 times, pat dry on kleenex after the last wash.

5. Add the working liquid for detecting antibody: add 100μL of the working liquid for enzyme binding to each well, seal the plate with the sealing plate film and place the incubator at 37℃ at 200 ~ 300rpm for 60 minutes.

6. Washing: Repeat Step 4.

7. Add TMB Substrate：Add substrate developing solution A 50μL and substrate developing solution B 50μL to each well, shake slightly and mix well, and then place in a dark place at 25℃ for 10 minutes for color development. Stop: Add termination solution 50μL to each well and mix slightly.

8. Reading: Select the main wavelength of 450nm and the reference wavelength of 630nm, and determine the light absorption value (OD value) of each well.

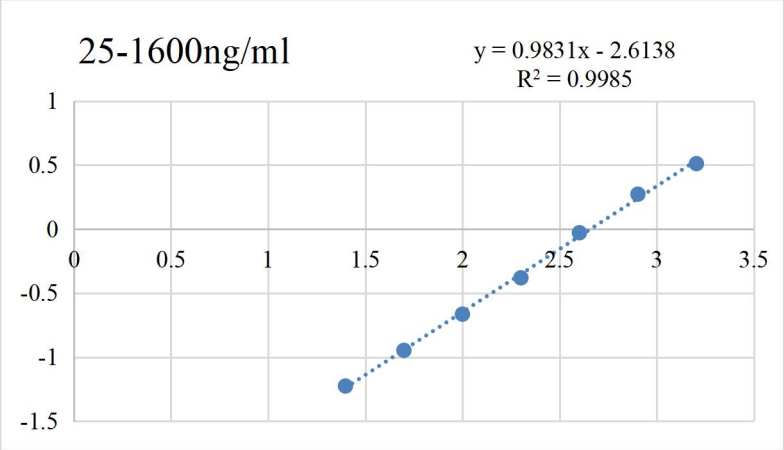
【Test results】

1. This product is recommended to use the log-double fitting method for linear fitting and calculation.
2. Standard curve OD processing (see the following example, only as an example, based on actual measurement)

Standard substance concentration. ng/mL	OD		Mean
1600	2.604	2.577	2.591
800	1.497	1.489	1.493
400	0.779	0.707	0.743
200	0.375	0.346	0.361
100	0.187	0.166	0.177

50	0.088	0.090	0.089
25	0.048	0.053	0.051
NC	0.006	0.006	0.006

3. The theoretical concentration of the standard product (25 ~ 1600ng/mL) and the corresponding OD value were fitted logarithmically to obtain the standard curve (as shown in the figure below).



【Localization】

This reagent is used only for the detection of herpes zoster/varicella protein in samples.

【Cautions】

1. All testing work must comply with the biosafety code to strictly prevent cross infection.
2. The determination of the test result must be based on the reading of the enzyme marker.
3. Samples and enzyme complexes should be filled with a liquid feeder and checked frequently for accuracy.
4. Different batches of reagents should not be mixed