

Porcine Reproductive and Respiratory Syndrome Virus

(PRRSV) Antibody ELISA kit

Brief

PRRS occurs in most major pig-producing areas throughout the world. The reproductive failure is characterised by abortions, stillbirths, and the birth of weak piglets that often die soon after birth of respiratory disease and secondary infections. Older pigs may demonstrate mild signs of respiratory disease, sometimes complicated by secondary infections. Animals other than pigs do not seem to be affected by PRRS. PRRS is classified as an OIE List B disease.

Usage

The porcine reproductive and respiratory syndrome virus (PRRSV) ELISA test kit is used for the detection of PRRSV antibodies in swine serum; assessment of immunity conditions against porcine reproductive and respiratory syndrome virus in the pig farm; investigation epidemiology of the PRRSV.

Brief Introduction

The test kit is composed of the antigen coated microplate, HRP goat-anti-pig IgG, and other reagents; it applies the indirect ELISA principle to test the antibodies against PRRSV in pig serum.

Principle

The test kit is the antigen coated microplate made through the inactivation, purification and concentration of the PRRSV. In the test, the diluted control serum and sample are added, then incubate. If porcine PRRSV specific antibodies exist in the sample, it will be bound with the antigens on the microplate, remove the unbound antibodies and other components by washing. Add IgG-HRP to specifically bind with complex of antibody-antigens on the microplate. Then the unbound enzyme conjugate (Anti-pig IgG-HRP combination) will be removed by washing. Then add the TMB substrate to the wells, react with HRP to generate a blue color. Stop the reaction by adding HF solution, measure the OD_{630nm} value.

Reagents of the Test Kit

- 1 Antigen coated microplate.....2 pieces (96 wells)
- 2 Negative control serum (green lid)..... 1 tube (1ml)
- 3 Positive control serum (red lid)..... 1 tube (1ml)
- 4 Anti-pig IgG-HRP combination(yellow lid)..... 1 bottle (22ml)
- 5 20×concentrated washing buffer (white lid)..... 1 bottle (30ml)
- 6 Substrate A (red lid)/B (black lid)..... 1 bottle each (12ml/bottle)
- 7 Stop solution (blue lid)..... 1 bottle (12ml)
- 8 Sample diluent (transparent lid)..... 1 bottle (50ml)

Specifications : 96 wells×2.

Expiry date: 6 months.

Storage: Storing at 2~8°C, in the dark.