



DIA kit for detection of antibodies against Aleutian mink disease virus (HS code 3822).
For research use only. Not for injection. Not for use in humans

Aleutian mink disease (AD) is a persistent viral infection induced by the AD parvovirus (AMDV). The disease manifestations in adult mink are hypergammaglobulinemia, glomerulonephritis, arthritis, and reduced reproductive performance. In newborns, AD may cause acute fatal pneumonia. Reduced fertility and increased mortality of infected minks can result in serious economic losses to the mink farmers. So far, no effective treatment for the disease exists, and the only available method for AD control is removal of infected minks. The infection may be diagnosed by the presence of either viral DNA or virus-specific antibodies in mink blood.

Dot immunoenzyme assay (DIA) is a method for detection of AMDV-specific antibodies in mink blood samples applied onto nitrocellulose backings. The method is based on binding of recombinant AMDV antigen to nitrocellulose-immobilized antibodies and subsequent detection of this interaction using enzyme-conjugated secondary antibodies. The kit element determining its specificity is AMDV antigen. Upon completion of the assay, positive signals develop as colored dots/spots on the membrane. The DIA kits may be designed to perform 2,000 or 20,000 tests. The DIA kit for 2,000 tests include:

1. Gridded nitrocellulose backings for application of 200 blood samples – 10 pieces in a plastic bag
2. Sodium bicarbonate Na_2CO_3 powder – 18.5 g in a plastic bag
3. Detergent solution – 20 ml in a vial
4. Hidroperit – 1 tab (1.5 g) in a plastic bag
5. Blocking solution – 20 ml in a vial
6. Reaction solution – 20 ml in a vial
7. Antigen solution – 0.5 ml in a tube
8. Biotinilated secondary antibody solution – 0.1 ml in a tube
9. Streptavidin-conjugated alkaline phosphatase solution – 0.05 ml in a tube
10. Enzyme substrate solution – 20 ml in a vial
11. Levamisole solution – 0.2 ml in a tube
12. Positive control antibodies – 0.05 ml in a tube
13. Negative control antibodies – 0.05 ml in a tube
14. Plastic incubation tray
15. Instruction manual

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