

## **Monoclonal antibody based immunoassay for detection of equine influenza (H3N8) antigen (Patented Technology).**

### **Technology Details**

Equine influenza commonly known as 'Horse Flu' is a viral disease of horses. It is an acute viral highly contagious respiratory disease of equines (horses, ponies, mules and donkeys) which spreads very fast. Equine Influenza virus (EIV) is known to cause severe clinical disease in equines, characterized by pyrexia, dyspnoea, dry hacking cough, serous nasal discharge that becomes mucopurulent due to secondary bacterial infections and loss of appetite. The disease is caused by Influenza A virus belonging to family *Orthomyxoviridae*. Belonging to two subtypes H3N8 and H7N7, however, EI outbreaks due to H7N7 subtype have not been reported for more than four decades. Currently two strains of H3N8 viz. Clade 1 and clade 2 of Florida sublineage have been circulating globally.

Various diagnostic assays are utilized for its detection which include serological assays, nucleic acid detection assays (RT-PCR and qRT-PCR), virus isolation etc. These assays are either time consuming or require good laboratory settings. We at ICAR-NRCE have developed a monoclonal antibody based enzyme immunoassay which can detect H3N8 antigen across various lineages at very low detection levels (0.25HA units). The assay is easy to perform and available in form of kit which can be stored at 4°C for one year.

### **Licensing terms**

- Nature of License: Non-exclusive
- Duration of the License: 05 years
- License fee:
  - Territory of India: ₹ 2.00 lakh + applicable taxes with 5% royalty on net-invoice value + applicable taxes
  - Territory of Overseas: USD 8,000 (or an equivalent amount in INR) + applicable taxes
- Training support: Up to 3 Persons nominated by the licensee shall be trained for the period up to 5 days. The cost of training to be imparted by the institute is included in the licensing fee. The expenses for boarding and lodging and travel of the licensee personnel shall be borne by the licensee.

- All statutory compliances related to production, sales, transportation, storage and performance of the product in the field to be fulfilled by the licensee.



