

Bovine Parainfluenza Virus type 3 antibody test

PIV3-Ab

Parainfluenza Virus type 3 (PIV-3), a paramyxovirus, is widespread among cattle.

Normally PIV-3 is expressed as a sub clinical infection. Bovine PIV-3 was first detected as cases of "shipping fever" in USA and as outbreaks of acute respiratory/ enteric disease of Swedish cattle. These outbreaks, bronchopneumonia or bronchopneumonia and enteritis, were caused by mixed infections, *Pasteurella hemolytica* in USA and bovine diarrhoea virus in Sweden. In shipping fever, crowding of calves during transport and poor ventilation facilitates the spread of infection and aggravate the disease. Symptoms noted are pyrexia, coughing, anorexia, nasal and ocular discharges, dyspnea and sometimes diarrhoea. Experimental infection of gnotobiotic calves with PIV-3 alone caused a mild upper respiratory tract disease. However, PIV-3 also acts as an immunosuppressive, predisposing under field conditions to secondary infection and re-infection. The virus is transmitted by direct contact with respiratory secretions (droplet infection). Participants of mixed infections may be virus, bacteria or mycoplasma. Herds should be monitored for the presence of PIV-3 infection as a predisposing disease factor.

SVANOVIR® PIV3-Ab ELISA is developed to detect Parainfluenza Virus type 3 specific antibodies (IgG₁) in bovine serum and milk samples.

Article No.:	10-2600-02
Kit format:	2 plate package size
No of tests:	96
No of samples:	88 (wells for kit controls excluded)

Application Area: Diagnostics (acute disease diagnosis by testing paired sera in single dilution)
Screening/Confirmation

Characteristics: Indirect ELISA
Adapted for serum as well as individual and pool milk samples
Relative sensitivity to HI: 95.4%
Relative specificity to HI: 98.8%
Agreement with HI: 0.94