



## SVANOVIR® BVDV p80-Ab

# The blocking ELISA for controlling Pestivirus in ruminant populations

**SUMMARY** | SVANOVIR® BVDV p80-Ab is a blocking ELISA based on the non-structural protein p80, which enables the detection of Bovine Virus Diarrhoea Virus (BVDV) and Border Disease Virus (BDV) in cattle and small ruminants, respectively. The assay has shown high accuracy in evaluation studies and proficiency tests.



### Your challenge is an economically important disease

Pestivirus infections are diseases with economically important ramifications. In cattle, infection causes bovine virus diarrhoea (BVD), leading to reproductive disorders and respiratory diseases. In sheep and goats, the infection is often subclinical, but in pregnant females it can lead to abortions or birth of small, weak lambs with neurological disorders (border disease, BD). Infection of naïve animals in early pregnancy results in offspring that are persistently infected (PI). These animals shed high amounts of virus and often die from the fatal form of the disease (Mucosal Disease).

### Your goal is the control of Pestivirus in both, cattle and small ruminants

A central element in eradication programs is the detection of herds harbouring PI animals. After the screening of herds for presence of antibodies to Pestivirus, positive herds usually undergo individual testing and virus positive animals are removed. Cross-species infections can occur and infectious foci can remain in livestock populations. Those can pose a risk in eradication programmes. Follow up screenings and biosecurity measures ensure further control of Pestivirus infection in ruminant populations.

**Multispecies ELISA** - effective surveillance of Pestivirus infection in cattle and small ruminants

**Detects all three genotypes of BVDV:** type I, type II and type III (HoBi-like)

**Validated for milk and serum in the same assay** - enables parallel screening of lactating and dry cows, calves and beef herds

## ASSAY OVERVIEW



### SVANOVIR® BVDV p80-Ab

<b>Species</b>	Bovine, ovine and caprine		
<b>Samples</b>	Serum and plasma, individual and pools of ≤ 10 Milk (in bovine only), individual and pools of ≤ 50		
<b>Type</b>	Blocking ELISA coated with highly conserved non-structural protein p80 (NS3)		
<b>Article number</b>	<b>Samples*</b>	<b>Plates</b>	<b>Format</b>
104911	184	2	Strips

\*Samples: Max. number of samples for analysis, wells for kit controls excluded

SVANOVIR® BVDV p80-Ab provides accurate results in the monitoring of Pestivirus infections in cattle and small ruminants, giving reliable support to BVD eradication programmes.

**Dual functionality in sample type**

- bulk milk screening and serum analysis are possible in the same assay

**Effective handling** - short incubation protocol <2.5 hrs and ready-to-use reagents

**High quality** - thoroughly validated and manufactured under strict ISO 9001:2008 standardised procedures in Sweden

**Multilingual kit insert and labels**

**YOUR SUPPORT**

From 9am-4pm CET call:

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**PERFORMANCE CHARACTERISTICS**  
SVANOVIR® BVDV p80- Ab

SVANOVIR® BVDV p80-Ab has demonstrated high accuracy in studies including large sample sizes of bovine milk and serum originating from different livestock populations. The high analytical sensitivity enables the detection of low antibody titres in newly infected individuals and in pooled samples of populations with low intra-herd prevalence. SVANOVIR® BVDV p80-Ab achieved excellent results in an in-house study on defined milk samples from the proficiency test of the Veterinary Laboratory Agency (VLA) in the UK in 2009. High sensitivity of 98% was also seen in a study on 92 ovine plasma samples from Austrian sheep herds. The assay will thereby minimise the risk of false negative results.

**High sensitivity and specificity in serum and milk samples**

Specimen	Sensitivity	Specificity	Reference method
Bovine serum <sup>a</sup> n <sub>pos</sub> = 154/ n <sub>neg</sub> = 57	92%	98%	VNT*
Bovine serum <sup>b</sup> n <sub>pos</sub> = 149/ n <sub>neg</sub> = 38	99%	82%	SVANOVIR® BVDV-Ab

**Samples** from (a) Peru, (b) Sweden, Thailand and Peru \*virus neutralisation test

**COMPLEMENTARY PRODUCTS**  
for the control of Pestivirus infections in cattle and small ruminants

**SVANOVIR® BVDV-Ab** Sets the standard for controlling bovine virus diarrhoea (BVD)

**SVANOVIR® BDV-Ab** Controlling Pestivirus infections in sheep and goat herds