



SVANOVIR® BVDV-Ab

Sets the standard for controlling bovine viral diarrhoea virus (BVDV)

SUMMARY | SVANOVIR® BVDV- Ab is a thoroughly validated and field approved assay for detecting all three genotypes of bovine viral diarrhoea virus (BVDV). Eradication and control programs greatly benefit from the high sensitivity and specificity of analyses for both pooled and individual samples.



Your challenge is the eradication and control of BVDV

BVDV is an economically important disease appearing as different disease complexes. In most situations, cattle exposed to BVDV develop a transient disease. However, infection of naïve animals in early pregnancy results in calves that are persistently infected (PI). These animals shed high amounts of virus, creating a high risk for spread of the disease. They often die from the fatal form of the disease (Mucosal Disease).

Your solution is an assay that fits with systematic control programmes

A central element in eradication programs is the screening of whole herds for evaluating antibody levels to BVDV. Herds harbouring PI animals usually have high levels of antibodies. Those herds then undergo individual testing and BVDV positive animals are culled. Follow up screenings and biosecurity measures ensure further control of BVDV.

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

Extensively validated in the field – utilised in BVDV control programmes in Scandinavia, Austria, Germany, Switzerland, UK, etc.

Dual functionality – the same assay tests both serum and milk samples (individual and pooled)

Semi quantitative test – paired samples used to detect cows pregnant with PI-calves

ASSAY OVERVIEW



SVANOVIR® BVDV- Ab

Species	Bovine		
Samples	Serum, plasma, individual and pools of ≤ 10 Milk, individual and pools of ≤50		
Type	Indirect ELISA detects antibodies to BVDV types I, II and III (HoBi-like)		
Article number	Samples*	Plates	Format
104881 ^a	88	2	Strips
104882 ^a	440	10	Plates
104883 ^b	920	10	Strips

a Confirmation assays: recommended for herds with high prevalence. **b** Screening assay: recommended for herds with low prevalence, in combination with confirmation assay. ***Samples:** Max. number of samples for analysis, wells for kit controls excluded

SVANOVIR® BVDV- Ab is an approved technology for the classification of individuals and herds according to their serologic BVDV status and delivers the accurate results needed for quality decision-making in control programs.

Standard formats for low throughput and large scale testing

Effective handling – ready to use conjugate and flexible incubation times (short & overnight)


Complementary guidance information in the kit insert for the classification of cattle herds according to the Swedish model

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- Ab

The assay identifies all genotypes of BVDV, including type I, II and III (HoBi-like), representing the most comprehensive test for epidemiological monitoring of BVDV.

In a study on a large number of milk and serum samples, SVANOVIR® BVDV-Ab demonstrated high diagnostic sensitivity. This enables detection of low antibody titers e.g. in newly-infected individuals and in pooled samples of populations with a low intra-herd prevalence. In milk, the detection of antibodies is possible at any point during the lactation period (Niskanen et al. 1989).

High correlation of results was seen between the virus neutralisation test and SVANOVIR® BVDV- Ab. Due to the assay's ability to provide semi quantitative results, classification of herds according to antibody levels in bulk milk is feasible and highly effective in control programs (Lindberg and Alenius, 1999). Paired samples taken two weeks apart during the last trimester of pregnancy, from the same pregnant cow can show an increased level of antibodies for a virus-positive pregnancy, identifying a possible future PI calf (Lindberg et al., 2001).

SVANOVIR® BVDV- Ab delivered accurate results in several BVDV ring trials conducted by the Friedrich-Loeffler Institute in Germany, the most recent one during late 2011.

BVDV types	SVANOVIR® BVDV- Ab
	Bovine
Type I	+
Type II	+
Type III (HoBi-like)*	+

* Ståhl et al., 2007

Specimen	Sensitivity	Specificity	Reference method
Bovine serum n= 208	100 %	98.2 %	VNT*
Agreement milk vs serum 0.95 n= 216			

* Virus neutralisation test

References: Niskanen R. et al. Evaluation of an Enzyme-Linked Immunosorbent Assay for Detection of Antibodies to Bovine Virus Diarrhoea Virus in Milk. J Vet Med B 36, 113-118. Lindberg A., Groenendaal H., Alenius S., Emanuelson U (2001): Validation of a test for dams carrying fetuses persistently infected with bovine viral diarrhoea virus based on determination of antibody levels in late pregnancy. Prev Vet Med. 51(3-4):199-214. Lindberg, A. and Alenius, S. (1999) Principles for eradication of bovine viral diarrhoea virus (BVDV) infections in cattle populations. Veterinary Microbiology 64: 197-222. Ståhl K, Kampa J, Alenius S, Persson Wadman A, Baule C, Aiumiamai S, Belák S. (2007): Natural infection of cattle with an atypical 'HoBi'-like pestivirus--implications for BVD control and for the safety of biological products. Vet Res.38(3):517-23.

Complementary product for controlling BVDV

SVANOVIR® BVDV p80-Ab

Blocking assay for detecting Pestivirus infection in cattle, sheeps and goats