SVANOVIR® *Brucella*-Ab C-ELISA

The *best* way to detect brucellosis in livestock herds

SUMMARY | SVANOVIR® Brucella-Ab C-ELISA is a multispecies assay ideal for use in situations of low and high prevalence of brucellosis, and for confirming results from herd screening tests. The assay is able to differentiate between vaccination antibodies (S19) and those that result from *Brucella* infection. This is a great benefit to control programmes.

YOUR CHALLENGE is a bacteria that can infect a variety of animals and humans

Brucella can infect a variety of domesticated and wild animals, and is a threat to human health (zoonotic disease). The strong affinity of the bacteria for the reproductive organs can lead to abortion and impaired fertility in livestock, with subsequent severe economic loss for farmers. *Brucella* species of major importance are *B. abortus*, *B. melitensis*, *B. suis* and *B. ovis*.

YOUR GOAL is to confirm brucellosis when present

Prevention of human brucellosis depends predominantly on control of the disease in animals. Test-and-cull programmes, in combination with vaccination and, at a later stage, depopulation of whole herds, are the major steps leading to the eradication of animal brucellosis.

ASSAY OVERVIEW

SVANOVIR® *Brucella*-Ab C-ELISA

Species	Bovine, ovine, caprine and porcine
Samples	Serum and plasma
Type	Competitive ELISA based on s-LPS antigen, detects *B. abortus*, *B. melitensis* and *B. suis*

Article number	Samples*	Plates	Format
104893	176	2	Strips
104894	880	10	Plates

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

Detects species of importance: *B. abortus*, *B. melitensis* and *B. suis*

High specificity, making it an excellent complementary test for evaluating positive results from herd screening tests

Highly discriminative between antibodies from vaccination (S19) and field infection

Successfully used in eradication programmes of brucellosis worldwide

The prescribed test method for international trade by OIE

svanova

SVANOVIR® *Brucella*-Ab C-ELISA delivers accurate results essential for successful monitoring programmes of *B. abortus, B. melitensis* and *B. suis,* and is a valuable tool for assessing freedom of disease, progress in eradication programmes and and livestock movement.

Multispecies assay

Standard formats for low throughput and large scale testing

Effective handling – ready-to-use conjugate and results in < 1.5 hrs

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

YOUR SUPPORT

From 9am-16pm CET call:

☎ **+46 18 65 49 15**

✉ **customer.service@svanova.com**

PERFORMANCE CHARACTERISTICS
SVANOVIR® *Brucella*-Ab C-ELISA

The accuracy of this assay has been shown in several studies on a large number of domesticated and wild species. The excellent specificity minimises false positive test results. Specifically, SVANOVIR® *Brucella*-Ab C-ELISA does not show false positive results in vaccinated (S19) cattle populations six months after vaccination, when standard testing methods typically do. Preliminary evaluation studies also show that SVANOVIR® *Brucella*-Ab C-ELISA can be used for detecting brucellosis in wild boars, bison and reindeer (data provided on request).

SVANOVIR® *Brucella*-Ab C-ELISA outperforms the major established tests and does not yield false positive results 150-240 days after vaccination (S19)

Sera from		Vaccination	25-30 dpv[b]	90 dpv	150-240 dpv
Vaccinated cattle n = 146[a]	SVANOVIR® ELISA	-	+	+	-
	BPA* test	-	+	+	+
	2-ME# test	-	+	+	+

Samples from [a] Argentina [b] days post vaccination *Bisphenol A
#2-mercaptoethanol

SVANOVIR® Brucella-Ab C-ELISA has shown excellent results in several studies on cattle, sheep and swine populations

Specimen	Sensitivity	Specificity	Reference method
Bovine sera n_{pos}= 466 n_{neg}= 1126[a]	99.5%	99.6%	Cultivation
Ovine sera n_{pos}= 112[b] n_{neg}= 127[c]	100.0%	100.0%	RBT** CFT**, Cultivation
Porcine sera n_{pos}= 469[d] n_{neg}= 952[e]	99.5%	99.6%	BPAT***, 2-ME****

Samples from [a] Chile [b] Iran, Israel [c] Sweden [d] Argentina [e] Canada
*Rose Bengal test, **Complement fixation test, *** Buffered antigen plate agglutination test, **** 2-mercaptoethanol test

COMPLIMENTARY DIAGNOSTIC SOLUTIONS
for controlling brucellosis

Advantage	Species	Test
Indirect ELISA with high sensitivity and optimised for large sample sizes	Bovine	SVANOVIR® *Brucella*-Ab I-ELISA
	Ovine, caprine	SVANOVIR® *Brucella*-Ab I-ELISA o/c