



## SVANOVIR® *Brucella*-Ab I-ELISA

# The most effective way to detect brucellosis in cattle herds

**SUMMARY** | SVANOVIR® *Brucella*-Ab I-ELISA is a highly sensitive assay designed to detect important *Brucella* species in cattle. A benefit to control programs is the dual functionality of the test, meaning serum/plasma and milk samples can be run in the same assay. It is a field-tested tool that has been successfully applied worldwide in eradication programmes of brucellosis.



### **YOUR CHALLENGE** is brucellosis in cattle

*Brucella* is a gram-negative bacteria that infects a variety of animals, including humans (zoonotic disease). *Brucella* species of major importance in cattle are *B. abortus* and *B. melitensis*. The strong affinity of the bacteria for the reproductive organs can lead to abortion and impaired fertility, with subsequent severe economic loss for cattle farmers.

### **YOUR GOAL** is to not miss a single animal that is infected with *Brucella*

Prevention of human brucellosis depends predominantly on control of the disease in animals. Control programmes aim to detect and eliminate infected animals, and protect the remaining stock. Tests with high sensitivity are needed to detect *Brucella* in cattle populations.

### **ASSAY OVERVIEW**

#### SVANOVIR® *Brucella*-Ab I-ELISA



<b>Species</b>	Bovine		
<b>Samples</b>	Serum, plasma, individual and pools of ≤10 Milk, individual and pools of ≤100		
<b>Type</b>	Indirect ELISA captures antibodies to <i>B. abortus</i> and <i>B. melitensis</i>		
<b>Article number</b>	<b>Samples*</b>	<b>Plates</b>	<b>Format</b>
104890	920	10	Strips

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

**Detects antibodies** to major important species of *Brucella* in cattle - *B. abortus* and *B. melitensis*

**Field-approved** herd screening test

**No false negatives** due to its high sensitivity

**Thoroughly validated** and fulfils the criteria of Council Directive 64/432/EEC

**Successfully used to control brucellosis** in Europe and South America

SVANOVIR® *Brucella*-Ab I-ELISA has demonstrated high sensitivity and specificity, thus being a valuable tool in screening programs for the eradication of brucellosis.

#### Dual functionality in sample type

– test of serum, plasma and milk, individual and bulk tank milk is possible in the same assay

Ideal for screening and available in format for high sample throughput

Effective handling and results in < 2.5 hrs

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

Multilingual kit insert and labels

#### YOUR SUPPORT

From 9am-16pm CET call:

+46 18 65 49 15

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## PERFORMANCE CHARACTERISTICS SVANOVIR® *Brucella*-Ab I-ELISA

In studies testing serum and milk of different populations (both free and infected), SVANOVIR® *Brucella*-Ab I-ELISA demonstrated high sensitivity and specificity. The high sensitivity minimises false negative results and the test has the ability to identify infections of major *Brucella* species in cattle, i.e. *B. abortus* and *B. melitensis*. The assay complies with the EU directive (64/432/EEC) Annex C and has shown excellent sensitivity in pooled milk samples. Due to the high analytical specificity the risk of false positive results is minimised and will prevent the culling of non infected individuals.

Serum of cattle from	Sensitivity	Specificity	Reference method
<i>Brucella</i> -positive individuals n=100 <sup>a</sup>	100%	n.ap.	CFT*
<i>Brucella</i> -free populations n=435 <sup>b</sup>	n.ap.	100%	CFT*

  

Milk of cattle from	Sensitivity	Specificity	Reference method
<i>Brucella</i> -free populations n=328 <sup>b</sup>	n.ap.	99%	CFT*

\*Complement fixation test, samples from <sup>(a)</sup> France <sup>(b)</sup> Sweden & Norway

SVANOVIR® I-ELISA-Ab has been successfully evaluated according to the standard references of EU directive (64/432/EEC) in individual and pooled samples

Standard	Sample type	Dilution	Detection
OIEISS	serum	1/150 and 1/600	+
OIE ELISA WPSS	serum	1/2 and 1/8	+
OIEISS	milk	1/1000 and further to 1/10	+

## COMPLIMENTARY PRODUCTS FOR controlling brucellosis

Advantage	Species	Test
The best way to detect brucellosis in livestock herds	Bovine, ovine, caprine and porcine	SVANOVIR® <i>Brucella</i> -Ab C-ELISA
The cost-effective way to detect <i>Brucella melitensis</i> in small ruminants	Ovine, caprine	SVANOVIR® <i>Brucella</i> -Ab I-ELISA o/c

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