



## SVANODIP® Rinderpest-Ag

# Emergency disease preparedness – the assay for rapid detection of new cases of Rinderpest

**SUMMARY** | SVANODIP® Rinderpest-Ag is a lateral flow device for the identification of new cases of Rinderpest in cattle. The easiness of the test procedure and fast availability of an accurate result (within 10 min) enables immediate and informed decision making in outbreak situations.



### **YOUR CHALLENGE** is having an emergency response to an eradicated, highly contagious virus

Rinderpest is an acute, fatal disease affecting cattle. In 2011, the OIE declared the world provisionally free of Rinderpest. However, as unrecognised infectious foci could have remained, the virus may spread widely within the now increasing proportion of susceptible animals. In order to avoid reoccurrence of Rinderpest, an emergency response to detect new cases rapidly should be in place.

### **YOUR GOAL** is to be prepared

Clinical signs of Rinderpest are unspecific and symptoms of infection can include pyrexia, oral erosions, diarrhoea and lymphoid necrosis and high mortality. The virus can already be found in nasal secretions a few days before clinical signs appear. Eradication of the virus following outbreaks depends on the rapid and accurate diagnosis of infection and implementation of control measures.

### **Highly specific and**

**sensitive** - the tool for detecting Rinderpest virus

**Rapid** – a simple test that provides results within 10 minutes

**Detects infection** as early as 5 days post infection

### **Field-approved assay**

**Developed in collaboration with the Institute for Animal Health, Pirbright Laboratory, UK**

## ASSAY OVERVIEW



### SVANODIP® Rinderpest-Ab

<b>Species</b>	Bovine (incl. buffaloes)		
<b>Samples</b>	Eye swab/lachrymal fluid		
<b>Type</b>	Lateral flow technique		
<b>Article number</b>	<b>Samples*</b>	<b>Devices</b>	<b>Format</b>
104738	50	50	Lateral flow devices

\* Samples: Max. number of samples for analysis.

SVANODIP® FMDV-Ag is a valuable diagnostic back-up in disease preparedness situations and will rapidly and accurately detect any new cases of Rinderpest.

**Rapid and easy protocol**- results within 10 minutes

**No lab. needed** – test can be run next to the animal

**Long shelf-life of 2 years**

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

## PERFORMANCE CHARACTERISTICS SVANODIP® Rinderpest-Ag

The test has been developed in collaboration with the Institute for Animal Health, Pirbright Laboratory, UK. High specificity and no cross-reaction was observed when analysing samples from naturally infected populations of several Rinderpest strains and animals infected with Foot-and- Mouth-Disease Virus. The test reveals positive results within 5 days after infection (Brüning et al., 1999). The test performed very well also under field conditions as shown in a field study in Pakistan. RT-PCR was used as the gold standard and identified 19 individuals as positive. The Penside test and an ELISA revealed Rinderpest in 17 and 15 samples, respectively (Hussain et al., 2001). The difference between the Penside test and the ELISA can be explained by the use of different monoclonal antibodies.

Virus strain	Strip test result	Virus strain	Strip test result
RP 42 Syria	+	RP RGK1	+
RP 68 Kuwait	+	RP RBK/WP	+
RP C272/81 Yemen	+	RP Egypt	+
RP 81 Saudi	+	RP RBOK	+
RP 41 Oman	+	PPR 75/1	-
RP Pakistan	+	PPR 75/2	-
RP Nig/Buffalo	+	FMDV	-

### References

Brüning, A., Bellamy, K., Talbot, D., Anderson, J. (1999): A rapid chromatographic strip test for the pen-side diagnosis of rinderpest virus. J. Virol. Meth. 81, 143-154.

Hussain, M., IQBal, M., Taylor, W.P., Roeder, P.L. (2001): Pen-side test for the diagnosis of Rinderpest in Pakistan. Vet. Rec. 149, 300-302.

## YOUR SUPPORT

From 9am-16pm CET call:

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## OTHER PRODUCTS FROM SVANOVA for first line diagnostics

SVANODIP® FMDV-Ag - Immediate and early detection of Foot-and-Mouth-Disease-Virus in livestock