

# Porcine

SVANOVIR® ASFV-Ab

## African Swine Fever Antibody Test

African swine fever (ASF) is an acute contagious haemorrhagic disease in domestic pigs, wildboars, wart hogs, bush pigs and giant forest hog. The disease is one of the most feared diseases due to its high mortality and morbidity rate and the lack of specific treatment or vaccine. It is endemic in countries of sub-Saharan Africa and in Sardinia. The most recent outbreak of ASF started in Caucasus 2007, the spread of the disease has been progressive and caused outbreaks among domesticated swine and wild boars in several countries in the region. By clinical symptoms, ASF is very similar to Classical swine fever and it exists in acute, sub-acute and chronic forms. As there is no treatment for ASF and no vaccine is available, the most effective way of controlling this potentially devastating disease is to prevent introduction of the virus through monitoring, screening and eradication programmes requiring high standard and reliable testing methods.

### SVANOVIR® ASFV-Ab assay format

The SVANOVIR® ASFV-Ab is an indirect enzyme-linked immunosorbent assay (ELISA) for the detection of African swine fever specific antibodies in porcine serum and plasma samples.

### Product overview

Product name	Article No.	Format	Plates	Tests	Samples
SVANOVIR® ASFV-Ab confirmation	10-7300-02	Strips	2	96	88
SVANOVIR® ASFV-Ab combi *	10-7300-50	Plate+Strips	9+1	912	872

\* Includes 9 screening plates and 1 confirmation plate.

**Tests:** Number of tests. **Samples:** Number of samples, wells for kit controls excluded



*"African swine fever is fast becoming a global issue. It now poses an immediate threat to Europe and beyond. Countries need to be on the alert and to strengthen their preparedness and contingency plans"*

*Juan Lubroth, the Chief Veterinary Officer of FAO (Reuters, May 2011)*

The product is the only commercially available kit based on a recombinant antigen - the p30, resulting in several performance improvements in terms of sensitivity and specificity including the increased ability to detect infected animals without clinical symptoms (ref 3)

### Features

- The only test based on recombinant p30 antigen
- Flexible formats - for large scale testing and low throughput
- Reliable results - less re-testing
- Validated with excellent results in OIE reference labs
- High performance test with superior sensitivity and specificity



## Summary

The SVANOVIR® ASFV-Ab is the only test based on the recombinant p30 antigen providing a reliable test result independent of the clinical status of the animal. By using a recombinant p30 antigen, Boehringer Ingelheim Svanova delivers an assay that sets a new performance standard for African Swine Fever testing, applicable for both low and high volume testing situations.

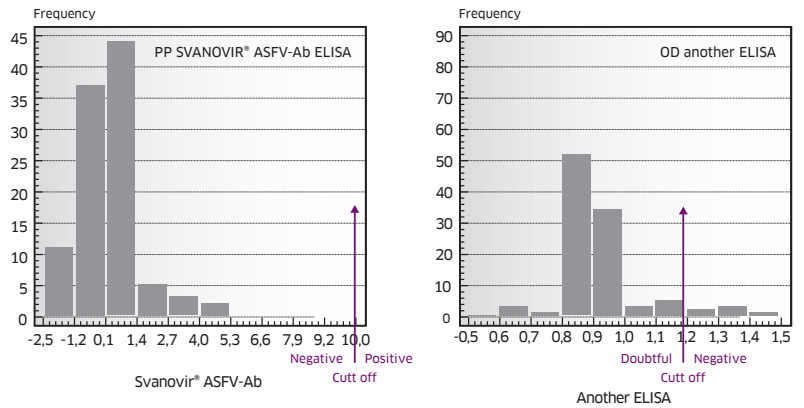
### References:

1. Manual of Diagnostic Tests and Vaccines for Terrestrial Animals 2009.
2. Pérez-Filgueira D.M. et al. (2006). Optimization and Validation of Recombinant Serological Tests for African Swine Fever Diagnosis Based on Detection of the p30 Protein Produced in *Trichoplusia ni* Larvae. *Journal of Clinical Microbiology*, Sept, p3114-3121.
3. Reis Ana Luisa et al. (2007). Systematic analysis of longitudinal serological responses of pigs infected experimentally with African swine fever virus. *Journal of General Virology*, 88, 2426-2434.

## Performance Characteristics

### Specificity

Test on negative samples from Sweden and Northern Ireland:

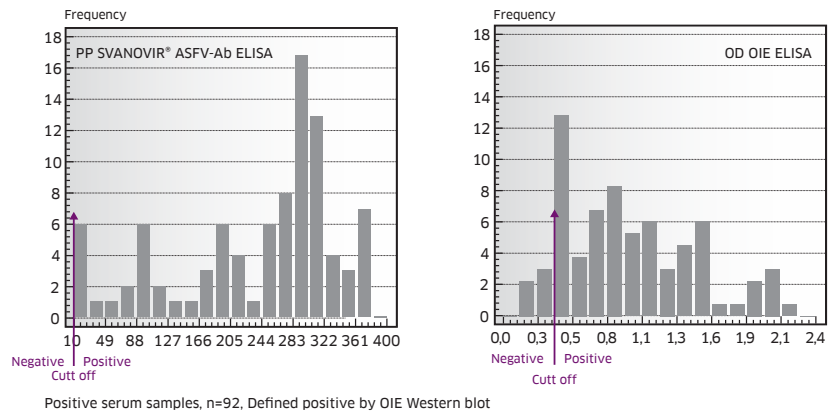


Negative serum samples, n=106

**Result:** The SVANOVIR® ASFV-Ab detected all the samples correctly and showed a specificity of 100%, while the other test detected only 26% of the samples correctly and 74% as doubtful which means the need for re-testing those samples

### Sensitivity

Test on positive samples from Congo and Mozambique:



Positive serum samples, n=92, Defined positive by OIE Western blot

**Result:** The SVANOVIR® ASFV-Ab detected all the samples correctly and showed a sensitivity of 100% while in the OIE ELISA, a number of samples scored negative and doubtful, giving a sensitivity of 85%.

### Conclusion:

The SVANOVIR® ASFV-Ab is a high performance assay which delivers accurate and reliable results. The excellent sensitivity and specificity offers an assay which reduces false negatives and false positives, and as a consequence minimize the need for costly re-testing; providing a unique tool for disease surveillance, eradication and control programme.

The test is developed in collaboration with ALGENEX in Madrid, Spain

svanova 

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