



SVANOVIR® *L. intracellularis*/Ileitis-Ab

Diagnostics for the efficient use of control measures

SUMMARY | The SVANOVIR® *L. intracellularis*/Ileitis-Ab is the compliant successor (materials, protocols and result interpretations) of the field proven bioScreen Ileitis Antibody ELISA. This assay shall carry forward the great advances achieved in disease epidemiology and control of *Lawsonia intracellularis*.



YOUR CHALLENGE is an ubiquitous bacteria

Porcine Proliferative Enteropathy (PPE, Ileitis) is a wide spread enteric disease caused by the intracellular bacteria *Lawsonia intracellularis* (*L. intracellularis*). Epidemiology is strongly influenced by farm characteristics, thus showing big variations in time of onset, severity and prevalence of infection. The two major forms of Ileitis are a subclinical disease of chronic diarrhea leading to poor performance in pigs or an acute disease resulting in severe diarrhea with high mortality. Both forms result in severe financial concerns.

YOUR GOAL is to schedule control measures properly

Preventing or reducing incidence and severity of clinical disease as well as performance improvements are major goals in controlling PPE. Vaccination, management improvements and biosecurity have gained importance in the control of PPE which significantly influences the reliance on antibiotic medication. Preventative methods shall be scheduled prior to anticipated onset of relevant infection with *L. intracellularis*. Serology overcomes the limitation of sporadic detection of *L. intracellularis* in feces. ELISA enables high sample throughputs with comparable results to indirect fluorescent antibody test.

New compliant successor of the bioScreen Ileitis Antibody ELISA - SVANOVIR® *L. intracellularis*/Ileitis-Ab

Continuation of established monitoring strategies for routine diagnostic and vaccination

Sero-monitoring of groups/herds for exposure to *L. intracellularis*

Seroprofiling of herds
Enabling informed decisions about
- scheduling of control measures
- planning of (re)placement of pigs

Verifying right time of vaccination

ASSAY OVERVIEW



Assays

Species	Porcine
Samples	Serum/plasma
Type	Blocking ELISA based on whole cell <i>L. intracellularis</i> antigen

	Art. number	Format	Tests	Samples
SVANOVIR® <i>L. intracellularis</i> /Ileitis-Ab	122275	2 plates	192	184

Tests: Number of tests.

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

Conclusion

The performance of SVANOVIR® *L. intracellularis*/Ileitis-Ab is highly comparable to the bioScreen Ileitis Ab ELISA, thus providing reliable results for decision making on herd level.

Identical kit components and working procedures

No change in result – interpretation

enabling continuation of established monitoring strategies for routine diagnostic and vaccination

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

PERFORMANCE CHARACTERISTICS

SVANOVIR® *L. intracellularis*/Ileitis-Ab

A total of 125 serum samples from experimentally infected pigs were pre-classified according to exposure to *L. intracellularis* (expected positives) vs. history of freedom of infection (expected negatives). Both ELISA were run by the same person on the same occasion according to the respective kit insert.

The overall agreement of the bioScreen Ileitis Ab ELISA and the SVANOVIR® *L. intracellularis*/Ileitis-Ab was 98.5%. All pre-classified negatives were negative in both assays, revealing 100% agreement. The agreement on the positive sample set was 98%, because the bioScreen Ileitis Ab ELISA displayed two samples of the expected positives as doubtful whereas the SVANOVIR® *L. intracellularis*/Ileitis-Ab classified them as positive (Goeser and Lindh,2016).

In conclusion, the bioScreen Ileitis Antibody ELISA and SVANOVIR® *L. intracellularis*/Ileitis-Ab are highly comparable. Both assays are 100% specific with a slightly higher sensitivity of the SVANOVIR® *L. intracellularis*/Ileitis-Ab. Together with a sampling plan based on estimated herd prevalence of *Lawsonia intracellularis* infection, both assays are highly suitable for decision making on herd level.


References

Goeser and Lindh (2016): SVANOVIR® *L. intracellularis*/Ileitis-Ab vs. bioScreen Ileitis ELISA Kit Validation. Data on file.

Walter *et al.* (2004): Serologic profiling and vaccination timing for *Lawsonia intracellularis*. J Swine Health Prod.12(6):310-313.

YOUR SUPPORT

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