



SVANOVIR® *O. ostertagi*-Ab

Monitoring and controlling gastro-intestinal nematodes in grazing cattle

SUMMARY | SVANOVIR® *O. ostertagi*-Ab is a semi-quantitative ELISA enabling the detection and determination of exposure levels of *Ostertagia ostertagi* in grazing cattle. This assay was validated in an EU-wide project that tested a high number of herds from different European countries, and shows correlation between the exposure and antibody levels as well as the economic impact on milk yield caused by infection with *O. ostertagi*.



Your challenge is a ubiquitous parasite affecting grazing cattle

O. ostertagi is a highly prevalent nematode in Western European cattle causing subclinical gastrointestinal disease. The parasite has a simple life cycle, with free-living infective stages of *O. ostertagi* being transmitted through ingestion on the pasture. Economic loss occurs from impaired performance, decrease in milk yield and the costs for anthelmintic treatment.

Your goal is to assess which herds would benefit from control measures

Infective larvae are present on every grazed pasture. Control of *O. ostertagi* is achieved by anthelmintic treatment and adaptation of grazing management. Excessive anthelmintic use is associated with a risk for the development of anthelmintic resistance. There is a big need for tests that can identify herds where infection level is high enough to justify anthelmintic treatment.

Pioneer ELISA enabling a new strategy for nematode control in cattle

Important tool for decision making – indicates when control measures are a must

Supports rational use of anthelmintics in ruminants

Quantitative and objective evaluation of infection – provides herd specific data

Independent evaluation – validated in an EU-wide project coordinated by the Ghent University, Belgium

ASSAY OVERVIEW



SVANOVIR® *O. ostertagi*-Ab

Species	Bovine		
Samples	Bulk tank milk		
Type	Indirect ELISA		
Article number	Samples*	Plates	Format
10-2940-02	184	2	Strips

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

SVANOVIR® *O. ostertagi*-Ab is the first monitoring tool for nematode infection in grazing cattle and results give guidance for economic nematode control and sustainable anthelmintic treatment.

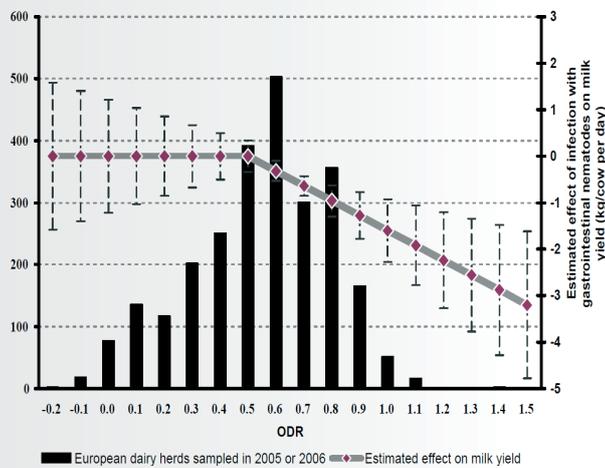
Cost effective assay for diagnosing *O. ostertagi* at herd level

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

Multilingual labels

PERFORMANCE CHARACTERISTICS SVANOVIR® *O. ostertagi*-Ab

SVANOVIR® *O. ostertagi*-Ab has been validated in a comprehensive field study of naturally infected cattle herds in Europe. Data from a large number of dairy farms in different European countries show a good correlation between levels of exposure to *O. ostertagi*, antibody levels in bulk milk (Charlier et al., 2005; Forbes et al., 2008) and production loss. Therefore SVANOVIR® *O. ostertagi*-Ab can be used to evaluate the level of exposure and whether anthelmintic treatment is expected to result in economic benefit or not.



Investigations of antibodies to *O. ostertagi* in herd milk samples from 2593 dairy farms in different European countries show a negative correlation of antibody levels detected by SVANOVIR® *O. ostertagi*-Ab and milk yield reduction. antibody levels.

References: Charlier, J., Claerebout, E., Duchateau, L., Vercruyse, J. (2005): A survey to determine relationships between bulk tank milk antibodies against *Ostertagia ostertagi* and milk production parameters *Vet. Parasitol.* 129, 67-75.

Forbes A.B., Vercruyse J., Charlier J. (2008): A survey of the exposure to *Ostertagia ostertagi* in dairy cow herds in Europe through the measurement of antibodies in milk samples from the bulk tank. *Vet. Parasitol.* 57, 100-107.

YOUR SUPPORT

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