

SVANOVIR® *O.ostertagi*-Ab ELISA

Governing the prudent use of anthelmintics

5 reasons for SVANOVIR® *O.ostertagi*-Ab ELISA

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| 1 | Pioneer ELISA enabling detection of severity of infection of <i>Ostertagia ostertagi</i> . | 2 | ELISA identifies herds that have potential to enhance milk production through worm control. | 3 | Only one single bulk milk sample needed for herd specific data. | 4 | Objective evaluation and inexpensive technology. | 5 | Proven assay. Extensively validated in the field and used a.o. in parasite programs in the Netherlands, Germany and Ireland. |
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Svanova's support for sustainable use of anthelmintics

Gastrointestinal nematode infections are common and significant causes of decreased animal health, welfare and productivity in pastured dairy cattle. The single most important species of nematode is *Ostertagia ostertagi* (*O. ostertagi*).

With indiscriminate and intensive anthelmintic treatment comes a more rapid development of resistant nematodes. SVANOVIR® *O. ostertagi*-Ab ELISA is a new tool for establishing sustainable gastrointestinal nematode practices in dairy cattle.

ELISA test results reveal severity of infection

The SVANOVIR® *O. ostertagi*-Ab ELISA is a unique semi-quantitative test, measuring the level of antibodies cows generate when being exposed to gastrointestinal nematodes whilst grazing on pasture.

The test results are expressed as optical density ratios (ODR), with a high ODR indicating a high exposure to *O. ostertagi*.

Test results reflect parasite- induced production losses

Comprehensive field studies of dairy farms in different European countries evidence the negative correlation of antibody levels in bulk milk with milk production (Charlier et al., 2005; Forbes et al., 2008).

Moderate to high exposure levels are potentially interfering with productivity, thus pointing out herds with potential to enhance milk production through helminth control.

From “calendar based” to informed treatment decisions

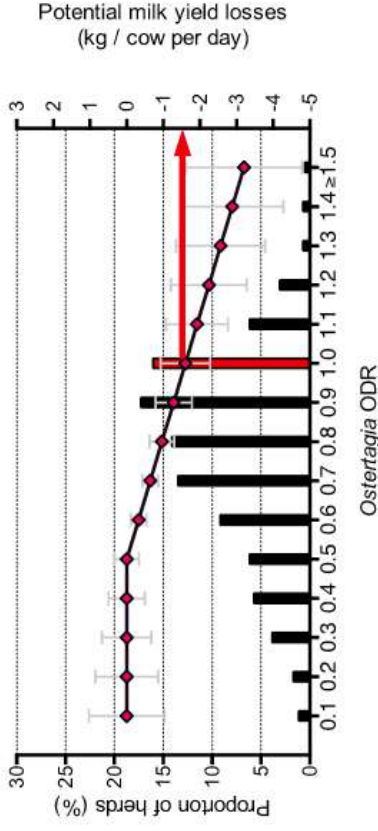
The control of *O. ostertagi* has traditionally relied on strategic “calendar-based” treatment of cattle with anthelmintics to prevent disease and production losses.

The SVANOVIR® *O. ostertagi*-Ab ELISA is an inexpensive, whole herd test providing objective herd-specific information for informed decisions about anthelmintic treatment.

One single bulk tank milk sample makes a difference

One bulk milk sample will

- show the severity of existing infection (sampling at end of grazing season)
- optimize the commencement of the lactation curve (sampling before early lactation)
- assess the likelihood of the subsequent season being more or less challenging than the current one (sampling at end of grazing season)



Interpretation chart for SVANOVIR® *O. ostertagi*-Ab ELISA. E.g. the ODR of 1.0 corresponds to an expected milk yield loss of about 1.5 kg/cow per day



GID Deventer Animal Health is servicing 2000 dairy herds with SVANOVIR® *O. ostertagi*-Ab

“SVANOVIR® *O. ostertagi*-Ab ELISA has greatly contributed to show the deleterious impact of gastrointestinal nematodes on production in adult cattle and has delivered the industry a lever to gain significant returns-on-investment from improved anthelmintic control measures.”

Johannes Charlier, DVM, PhD, Dip EVPC. Consultant for livestock parasite management at Kreavet

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