SVANOVIR® *O. ostertagi*-Ab

Monitoring and controlling gastrointestinal 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.

**ASSAY OVERVIEW**

| **SVANOVIR® *O. ostertagi*-Ab** |
|-----------------|-----------------|-----------------|
| **Species**     | *Bovine*        |
| **Samples**     | Bulk tank milk |
| **Type**        | Indirect ELISA  |
| **Article number** | **Samples** | **Plates** | **Format** |
| 104897          | 184             | 2              | Strips     |

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

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
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.

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

Effective handling – ready-to-use conjugate

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

Multilingual labels

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: