SVANOVIR® TGEV/PRCV-Ab

The first antibody ELISA that accurately differentiates between Transmissible Gastroenteritis Virus and Porcine Respiratory Coronavirus

**SUMMARY** | SVANOVIR® TGEV/PRCV-Ab is a blocking ELISA assay enabling discrimination between antibodies to Transmissible Gastroenteritis Virus and Porcine Respiratory Coronavirus. This is a great benefit in management of outbreak investigations, eradication programs and herd-screenings prior to movement of animals.

**YOUR CHALLENGE** is antigenic similarity of two corona virus variants
In naïve herds, Transmissible Gastroenteritis Virus (TGEV) causes an acute, highly contagious diarrhoeal disease with a high mortality rate in very young piglets. In adult pigs, the disease is mild to unapparent. In pig herd production, it is essential to differentiate TGEV from Porcine Respiratory Corona Virus (PRCV), a genetic variant of the Coronavirus which causes only a mild disease.

**YOUR GOAL** is to differentiate between TGEV and PRCV
TGEV and PRCV are prevalent in swine herds worldwide. It is essential to differentiate between the variant that has the potential to cause explosive outbreaks and the fairly mild variant of low socioeconomic importance. Reliable diagnostic is essential for maintaining herd health and a great benefit in situations of movement of pigs to new herds and facilities.

**ASSAY OVERVIEW**

<table>
<thead>
<tr>
<th>SVANOVIR® TGEV/PRCV-Ab</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Species</strong></td>
<td>Porcine (incl. wild boars)</td>
</tr>
<tr>
<td><strong>Samples</strong></td>
<td>Serum/plasma</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Blocking ELISA with anti-TGEV mAb &amp; anti-TGEV/PCRV mAb</td>
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<tr>
<td><strong>Article number</strong></td>
<td>10-7500-02</td>
</tr>
<tr>
<td><strong>Samples</strong></td>
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<tr>
<td><strong>Plates</strong></td>
<td>2</td>
</tr>
<tr>
<td><strong>Format</strong></td>
<td>Strips</td>
</tr>
</tbody>
</table>

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

**Pioneer serological test**
The only assay that can differentiate between TGEV and PRCV

**High specificity**, the assay for confirming TGEV infection

**Reliable results**, rules out PRCV infection in individuals and herds and provides confidence for trading certificates

**Prescribed test method for international trade by OIE**
PERFORMANCE CHARACTERISTICS
SVANOVIR® TGEV/PRCV-Ab

In several studies the SVANOVIR® TGEV/PRCV-Ab assay correctly discriminated between TGEV and PRCV infections. The ability to specifically detect PRCV minimizes the probability of false positive TGEV results and subsequent exclusion of those pigs for trading. SVANOVIR® TGEV/PRCV-Ab assay shows strong correlation with the Virus Neutralisation Test (VNT) on serum samples from Canadian pig herds (Carman et al. 2002), and furthermore SVANOVIR® TGEV/PRCV-Ab is superior to VNT because it can differentiate between antibodies to TGEV and PRCV. A specificity of 100% has been demonstrated in wild boar populations with historical freedom of disease (Hälli et al., 2012).

Easier protocol and shorter processing time as compared to Virus Neutralisation Test (VNT)

Effective handling, with a single dilution assay without titration

High quality. The assay is thoroughly validated and manufactured under strict ISO 9001:2008 standardised procedures in Sweden

Multilingual kit insert and labels

YOUR SUPPORT

From 9am-4pm CET call:
+46 18 65 49 15
customer.service@svanova.com

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SE-751 45 Uppsala, Sweden

www.svanova.com

References:
Carman et al., 2002: Field validation of a commercial blocking ELISA to differentiate antibody to transmissible gastroenteritis virus (TGEV) and porcine respiratory coronavirus and to identify TGEV-infected swine herds. J Vet Diagn Invest 14:97-105.