

# Transmissible Gastroenteritis Virus/Porcine Respiratory Coronavirus Differentiating Test

## TGEV/PRCV-Ab

Transmissible Gastroenteritis (TGE) is a highly contagious viral enteric disease of swine. It is caused by the coronavirus TGEV (Transmissible Gastroenteritis Virus) and occurs worldwide. The disease is characterised by vomiting, watery diarrhoea, anorexia and dehydration. Mortality is high in younger piglets. Suckling pigs older than 3 weeks usually survive the disease. The clinical signs in adult pigs are limited to loss of appetite and diarrhoea. Ingested TGEV replicates primarily in the absorptive epithelial cells of the small intestine. The primary source for the TGEV transmission is sows milk and faecal material from carrier animals. Starlings and houseflies can act as mechanical vectors for the virus. A variant of TGEV, the Porcine Respiratory Coronavirus (PRCV), has made the diagnosis of TGEV more complex. PRCV is closely related to TGEV but causes a milder infection in the respiratory tract. It is therefore of importance to be able to differentiate between these two viruses in a routine diagnostic test. It is advisable to monitor pigs for the presence of anti-TGEV antibodies in the blood prior to introduction into a new flock in order to reduce the risk of infecting a TGEV free population. Many countries require that pigs are certified TGEV free before an import permit is issued.

SVANOVIR® TGEV/PRCV-Ab ELISA is developed for detection and differentiation of antibodies to Transmissible Gastroenteritis and Porcine Respiratory Coronavirus in porcine serum samples.

Article No.:	10-7500-02
Kit format:	2-plate package size
No of tests:	96
No of samples:	84 (wells for kit controls excluded) for both TGEV and PRCV

**Application Area:** Differentiation between TGEV and PRCV  
Herd diagnostics

**Characteristics:** Blocking ELISA  
Single dilution assay – no titration  
Relative sensitivity to VN: 93.3% \*  
Relative specificity to VN: 94.3% \*  
\* on a herd basis