

# PREVENT TGE FROM ENTERING INTO YOUR FREE HERD

## USE THE GOOD PERFORMING SVANOVIR<sup>®</sup> TGEV/PRCV-Ab

Transmissible gastroenteritis (TGE) is known to be one of the most significant and severe enteric disease in young pigs. Mortality rate might be as high as 20 %.

In order to prevent TGE from entering into a negative herd, it is important to acquire new animals from a TGE-free source - therefore all new animals should be tested for TGEV antibodies.

The high antigenic similarities between TGEV and PRCV (porcine respiratory corona virus), a mutant of TGEV causing a mild respiratory disease, complicates serology testing for TGEV. PRCV contributes often to the porcine disease complex. Neutralizing antibodies are cross reacting and therefore a positive neutralization test does not assess the TGE status in a pig or herd; therefore a differentiating test is needed.

The SVANOVIR<sup>®</sup> TGEV/PRCV-Ab (Transmissible Gastroenteritis Virus/Porcine Respiratory Coronavirus Differentiating Test), based on the blocking ELISA technique, has recently been validated with samples from animals with known TGEV status and compared to another similar ELISA.

### MATERIAL:

Herd Characteristic	No of samples	Comment
TGEV positive	44	From TGEV infected Russian herds
TGEV negative	56	From TGEV free Swedish herds

## RESULT

### Results TGEV positive animals (n=44):

TGEV mAb	Corona spec mAb	Interpretation	SVANOVIR®	ELISA 2
-	-	TGEV and PRCV neg	1	9
+	-	Inconclusive	0	21
+/-	+	Inconclusive	2	0
+/-	-	Inconclusive	0	2
+	+	TGEV pos	41	12
		Correct interpretation	93 %	27 %

### Results TGEV negative animals (n=56):

TGEV mAb	Corona spec mAb	Interpretation	SVANOVIR®	ELISA 2
-	-	TGEV and PRCV neg	35	39
-	+	TGEV neg / PRCV pos	21	17
		TOTAL TGEV negative	56	56
		Correct interpretation	100 %	100 %

## CONCLUSION:

The SVANOVIR® TGEV/PRCV-Ab interpreted 93 % of the TGEV positive animals correctly whereas ELISA two only 27 %. Both ELISA tests showed 100 % specificity regarding TGEV status in the Swedish population of 56 animals.

The SVANOVIR® TGEV/PRCV-Ab is a reliable tool for the assessment of TGE status in pigs, differentiating between TGEV and PRCV.