



# ANIGEN Rapid TGE Ag Test Kit

Catalogue NO.: RG14-02

**Anigen Rapid TGE Ag Test Kit** is a solid phase chromatographic immunoassay for the qualitative detection of Porcine Transmissible Gastroenteritis (TGE) Virus antigen in porcine diarrhoea faeces

## Background:

Transmissible gastroenteritis (TGE) is a viral disease of the small intestine that causes vomiting and diarrhoea in pigs of all ages. The infection spreads rapidly by aerosol or contact exposure. Severe epidemics are more common during winter due to survival of the virus in colder temperatures. Depending on the level of immunity and exposure, diarrhoea may be mild in some litters but severe in others. Because TGE virus is easily spread during an epidemic by persons, animals, and other means, fast diagnosis and special care should be taken to prevent spread to unexposed groups of pigs and to neighbouring herds. Current clinical signs in the epidemic form of TGE usually justify a presumptive diagnosis. In the mild endemic form, laboratory confirmation is required. The Anigen Rapid TGE Ag Test Kit provides fast and accurate confirmation of the presence of TGE viral antigens.

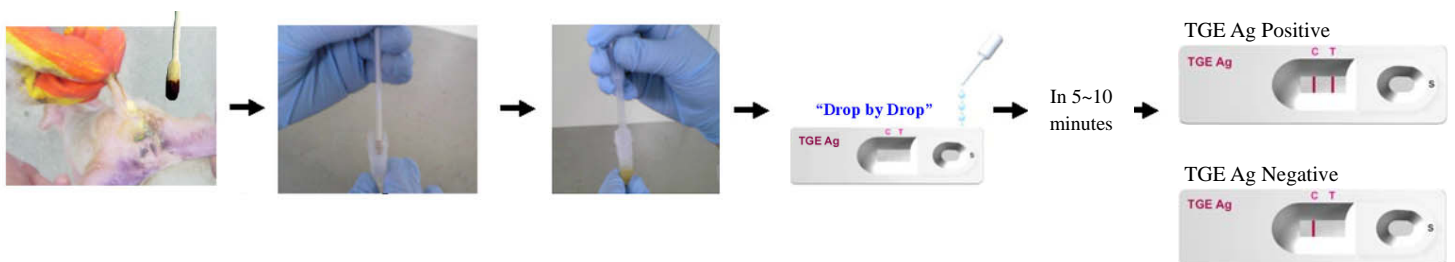
## Specifications

- Principle: Immunochromatographic assay using Direct Sandwich Method
- Monoclonal anti-TGEV(Capture)-TGEV-Monoclonal anti-TGEV(Detector)
- Monoclonal antibody against S protein of Transmissible gastroenteritis virus
- Purpose: Detection of Transmissible gastroenteritis virus antigen in pig
- Specimen: Diarrhea feces
- Reading time: 10 minutes
- Sensitivity: 92.1% vs. RT-PCR & IFA
- Specificity: 95.2% vs. RT-PCR & IFA
- No cross reaction against PEDV, Rota virus, PRC virus, BCV, *E.coli*, K88ab, K88ac, 987P, F41, *Salmonella spp.*, *Brachyspira hyodysenteriae*, *Clostridium perfringens*, Coccidium
- Shelf life: 18 months
- Storage temperature: 2~30 °C
- Packing size: 10 individual devices/Kit

## Special Features

- Optimal detection method of TGEV antigen in the farm or laboratory
- High sensitivity Vs current confirmatory RT-PCR
- Quick test result: Immediate preventive action is possible
- World first commercialized rapid test kit for detection of TGEV antigen
- Easy test procedure: No technical expert is required, labour & time saving.
- All components are included in the test kit
- Fast diagnosis helps to decrease herd losses.

## Test Procedures



## Independent Comparison Study

**1. Sensitivity Study:** The Anigen Rapid TGE Ag was tested with diarrhoea faeces to compare RT-PCR, IFA test result at Korean National Veterinary Quarantine Service

Pig Farm	No. of faeces	Final diagnosis	No. of positive result	
			Anigen TGE Ag Kit	RT-PCR and IFA
A	12	TGEV	11	12
B	5	E.coli	0	0
C	12	TGEV	10	12
D	6	E.coli	0	0
E	14	TGEV	14	14
F	13	TGEV	11	13
G	15	TGEV + E.coli	14	15
H	9	TGEV	9	9
I	3	TGEV + E.coli	3	3
J	11	TGEV + E.coli	10	11
Total	100		82	89

- Sensitivity: 82/89=92.1% vs. RT-PCR and IFA

**2. Specificity Study:** The Anigen Rapid TGE Ag was tested with diarrhoea faeces to compare RT-PCR, IFA test result at Korean National Veterinary Quarantine Service

Age of pig	No. of specimens	No. of negative results	
		Anigen TGE Ag	RT-PCR and IFA
Suckling pig	173	165	173
Growing pig	37	35	37
Total	210	200	210

- Specificity: 200/210=95.2% vs. RT-PCR and IFA