Identification is the first step in the fight against TGEV!

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

   - Sensitivity: 82/89=92.1% vs. RT-PCR & 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
   - **No. of negative results**
     - Age of pig
     - No. of specimens
     - 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