Anigen Animal Genetics, Inc.

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ANIGEN Rapid Rota Ag Test Kit

Catalogue No.: RG18-03

Anigen Rapid Rota Ag Test Kit is a solid phase chromatographic immunoassay for the qualitative detection of Rotavirus group A antigen in porcine, bovine, or canine faeces

■ Background:

Rotavirus is the most common viral causative agent of diarrhoea in pigs, cattle and dogs. Group A and B rotavirus are involved with group A being most prevalent and clinically important, containing several serotypes of differing virulence. All ages are susceptible. Dogs show somewhat opportunistic clinical signs.

If neonatal pigs and cattle do not receive protective levels of maternal antibody, they are likely to develop profuse watery diarrhoea in 12-48 hr. More commonly, the infection is endemic in a herd. Differential diagnosis of Rotavirus, TGEV and PEDV is important.

Usually confirmatory diagnosis is based on histologic demonstration of villous atrophy in the jejunum or electron microscopy demonstration of virions in the intestinal contents. These methods are slow and require high priced specialized equipment and expertise. The Anigen Rapid Rota Ag test kit has been developed to provide fast, reliable, simple and sensitive detection of viral antigen in the intestinal mucosa or faeces.

■ Specification

•Principle: Immunochromatographic assay using Direct Sandwich Method
-Monoclonal anti-Rotavirus (Capture)– Rotavirus –Monoclonal anti- Rotavirus (Detector)
-Monoclonal antibody against VP6 of Rotavirus
•Purpose: Detection of Rotavirus Group A antigen in pigs, cattle and dogs
•Specimen: Diarrheal faeces
•Reading time: 10 minutes
•Sensitivity: 100% vs. RT-PCR
•Specificity: 98.5% vs. RT-PCR
•No cross reaction against PEDV, TGEV, PRC virus, BCV, *E.coli*, K88ab, K88ac, 987P, F41, *Salmonella spp*. *Brachyspira hyodysenteriae*, *Clostridium perfringens*, Coccidium, CPV, CCV
•Shelf life: 18 months
•Storage Temperature: 2~30 ‘C
•Packing size: 10 individual devices/Kit

Independent Comparison Study

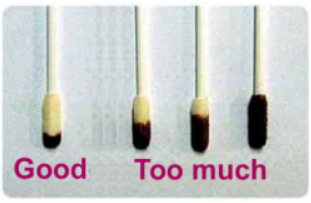
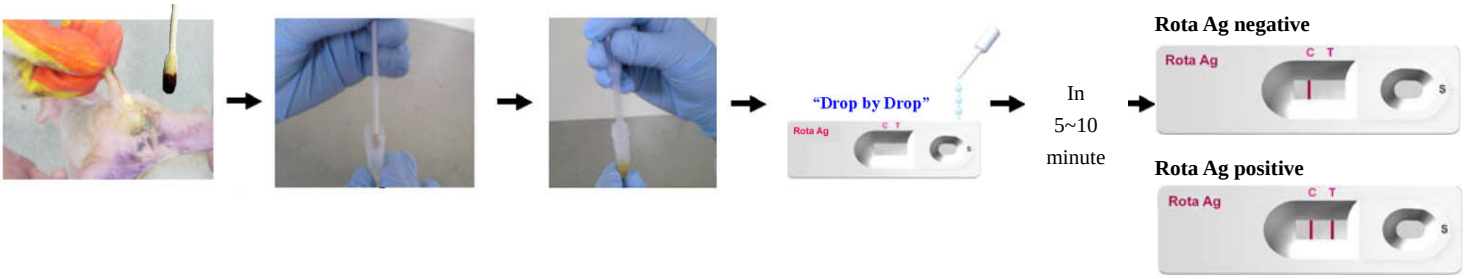
Clinical evaluation study of Anigen Rapid Rota Ag Test Kit

	Suckling pig	Calf
No of specimen	12	18
No. of positive result of Antigen Rapid Rota Ag Test	5	6
No. of positive result of RT-PCR	5	6
Positive rate of Antigen Rapid Rota Ag Test	44%	33%
Positive result rate of RT-PCR	44%	33%
Agreement rate between Anigen Rota Ag Test and RT-PCR assay	**100%**	**100%**

■ Special Features

- **Optimal detection method of Rotavirus group A antigen in the farm or laboratory.**
- **High sensitivity Vs RT-PCR**
- **Quick test result allows immediate preventive action to be taken.**
- **World first commercialized rapid test kit for detection of Rotavirus antigen.**
- **Easy test procedure: No technical expert is required, labour & time saving.**
- **All components are included in the test kit: Non-expert can perform testing.**
- **Fast diagnosis helps to decreases herd losses.**

[Proper sample amount collected by a swab]



■ Test Procedures