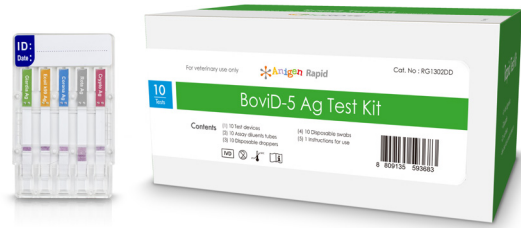# BoviD-4/5, D4 Diarrhea Ag

Bovine Rota, Corona, E.coli K99, Cryptosporidium, Giardia antigen

Newborn calves are susceptible to neonatal calf diarrhea especially during their first 3~4 weeks of life. Bacteria, viruses and parasites, by attacking the lining of the calf`s intestine, give rise to diarrhea. It is one of the major financial damage factors in bovine farms, because once infected this decreases the absorption of essential nutrients from milk and leads to weight loss and dehydration. Generally, calf diarrhea is considered as an emergency situation that requires swift diagnosis and rehydration. One of the key features of a rapid test kit is the "rapidity" of the test result, thus BoviD- 5 Ag is an ideal test in these situations.

Indications

- For differential diagnosis of calf diarrhea
- Calf diarrhea etiologic agent monitoring in field
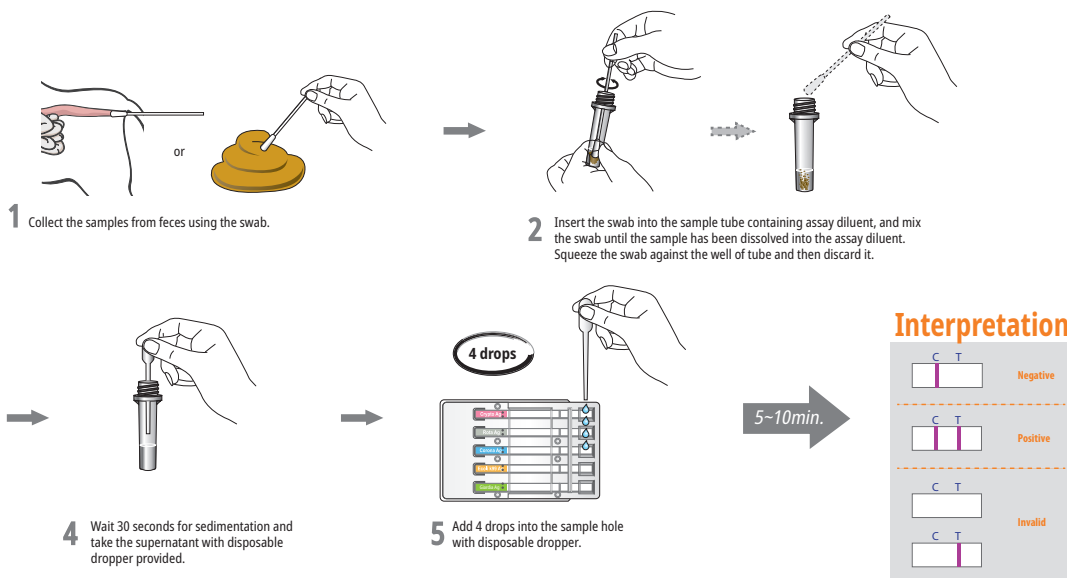- For immediate treatment required cases

	Sensitivity	Specificity	
Cryptosporidium	98.2%	99.0%	vs.PCR
Rotavirus	99.0%	98.0%	
Coronavirus	98.4%	98.0%	
E.coli K 99	97.8%	99.0%	
Giardia	92.1%	99.1%	vs.ELISA

Special Features

- Useful tool for ruling out the cause of calf diarrhea
- Specimen : Diarrheal feces
- No cross reaction with other etiologic agents of calf diarrhea
- Sensitivity and Specificity : see table

	BoviD-5	BoviD-4	D4 Diarrhea
Species	Bovine	Bovine	multi-species
Cryptosporidium	O	O	O
Rotavirus	O	O	O
Coronavirus	O	O	X
E.coli K 99	O	O	O
Giardia	O	X	O

Test Procedures

1 Collect the samples from feces using the swab.

2 Insert the swab into the sample tube containing assay diluent, and mix the swab until the sample has been dissolved into the assay diluent. Squeeze the swab against the well of tube and then discard it.

4 Wait 30 seconds for sedimentation and take the supernatant with disposable dropper provided.

5 Add 4 drops into the sample hole with disposable dropper.

4 drops

5~10min.

Interpretation

Negative
Positive
Invalid

Ordering Information

Cat. No.	Description	Type	Packing size
RC1302DD	Rapid BoviD-5 Ag	Device	1 Test x 10/Kit
RC1301DD	Rapid BoviD-4 Ag	Device	1 Test x 10/Kit
RG1806DD	Rapid D4 Diarrhea Ag	Device	1 Test x 10/Kit