

UPGRADE

# Anigen Rapid BoviD-6 Ag

Rapid Point-of-care Diagnosis of Calf Diarrhea  
+ *Clostridium perfringens*



# Calf Diarrhea

## Why should we test Calf Diarrhea?

- Commonly reported disease ▶ Especially during first 28 days of life
- The major cause of economic loss to cattle producers
- Not a single disease, but a clinical sign associated with several diseases

## Pathogens of Calf Diarrhea

- Various pathogens or factors have been implicated
  - » Accurate diagnosis is necessary
  - » Appropriate treatment & management for the cause is essential



### Bacteria

- *E. coli* (15.3%)
- *C. perfringens* (24.7%)

- Fluid therapy
- **Antibiotic (fever)**
- Sanitary management



### Virus

- Bovine rotavirus (19.4%)
- Bovine coronavirus (4.3%)

- **Fluid therapy**
- Sanitary management
- Transmission control
- Vaccination



### Parasite

- *Cryptosporidium* (15.3%)
- *Giardia* (20.2%)
- *Coccidium* (23.2%)

- **Fluid therapy + antiprotozoal**
- **Zoonosis management**
- Sanitary management



### *Clostridium perfringens*

- One of the most common pathogens
  - Causing enteric infections
  - Local damage or systemic effects by toxin

Small amounts  
(generally harmless)

Conditions  
*C. perfringens*  
grow & proliferate

**Toxin** produced  
in the small intestine

- Diagnosis
  - Necropsy, Histology
  - Bacterial culture, PCR – insufficient
  - **Detection of alpha toxin (CPA)**

# BoviD-6 Ag

## Specification

**Product name :** Anigen Rapid BoviD-6 Ag Test Kit

**Detection target :**

- ① *Cryptosporidium*
- ② Rotavirus
- ③ Coronavirus
- ④ *E. coli* (K99, F17)
- ⑤ *Giardia*
- ⑥ ***Clostridium perfringens* (alpha toxin)** NEW



**Principle :** Immunochromatographic assay

**Species :** Bovine

**Sample :** Feces

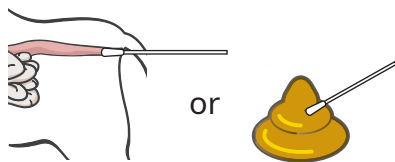
**Testing Time :** 10 minutes

**Storage Temp. :** 2~30 °C

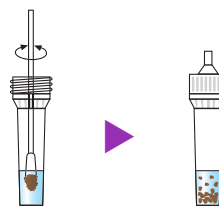
**Packing Unit :** 10 Tests/Kit

## Test Procedure

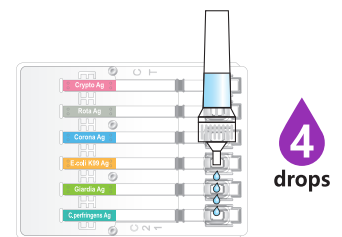
① Collect fecal samples using the swab



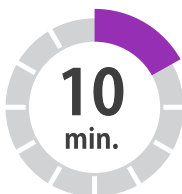
② Mix the swab into the assay diluent and place the filter cap on to the tube



③ Add 4 drops into each sample hole



④ Interpret test results at 10 minutes



## Result Interpretation

⊖ Negative



⊕ Positive



⊗ Invalid



# BoviD-6 Ag

## Performance

	Analytical performance		Clinical performance		
	Limit of detection	Cross-reactivity	Sen.	Spe.	Compared method
<b>Crypto</b>	125 cyst/100 µl	No cross-reactivity with other pathogens	96.80%	98.20%	PCR assay
<b>Rota</b>	10 <sup>1.95</sup> TCID <sub>50</sub> /0.03 ml		96.40%	95.90%	
<b>Corona</b>	7.81 <sup>1.83</sup> TCID <sub>50</sub> /ml		96.00%	95.30%	
<b>E. coli</b>	1.87x10 <sup>5</sup> /ml (CFU) – K99 1.56x10 <sup>7</sup> /ml (CFU) – F17		96.80%	97.90%	
<b>Giardia</b>	175 cyst/10 µl		96.50%	97.30%	
<b>C. perfringens</b>	62.5 ng/ml (Similar with company 'B' kit)		-	-	-

## Special Features



**Rapid**

- Quick result (Within 10 min)
- On-site Diagnosis
- Fast Diagnosis & Treatment

**Simple**

- Easy sample collection (Feces)
- Simple test procedure
- Filter cap application

**Accurate**

- Differential diagnosis of calf diarrhea
- Good correlation with PCR
- No cross-reactivity with other pathogens

## Ordering Information

Product No.	Product	Detection Target	Packing Unit
RG1302DD	Rapid BoviD-5 Ag	<i>Cryptosporidium</i> , Rotavirus, Coronavirus, <i>E. coli</i> (K99), <i>Giardia</i>	10 Tests/Kit
RG1306DD	Rapid BoviD-6 Ag	<i>Cryptosporidium</i> , Rotavirus, Coronavirus, <i>E. coli</i> (K99, F17), <i>Giardia</i> + <i>C. perfringens</i> alpha toxin	10 Tests/Kit