



ANIGEN Rapid CCV Ag Test Kit

Catalogue No.: RG11-04

Anigen Rapid CCV Ag Test Kit is a solid phase chromatographic immunoassay for the qualitative detection of Canine Coronavirus antigen in canine faeces.

Background

Canine Coronavirus causes sporadic outbreaks of vomiting and diarrhoea in dogs, very similar symptoms to a Canine Parvovirus infection. CCV is widely distributed throughout the world, with a sero-prevalence of 25 ~ 54% in family dogs and 80~100% in kennel dogs. The virus is excreted in a dogs faeces from the first sign of clinical symptoms. Infections in 1~3 month old puppies have a poor prognosis and if simultaneous infections with CPV occur, the disease is more severe and often fatal, making the detection of a Canine Coronavirus infection very important.

Specifications

- Principle: Immunochromatographic assay using Direct Sandwich Method - Monoclonal anti-CCV(Capture)- CCV-Monoclonal anti-CCV(Detector)
- Purpose: Detection of canine Coronavirus antigen
- Specimen: Canine faeces
- Reading time: 5-10 minutes
- Sensitivity: 93.1% vs. RT-PCR
- Specificity: 97.5% vs. RT-PCR
- No cross reaction with CPV, CDV, Parainfluenza virus, ICH, PI2, other parasites
- Detection limit: $10^{5.0}$ TCID₅₀/ml
- Shelf life: 18 months
- Storage temperature: 2~30 °C
- Packing size: 10 Tests/Kit



Special Features

- World's first and only CCV Ag rapid test
- Excellent tool for prognosis:
 - CPV/CCV dual infections are often fatal
 - CCV only infection has a good prognosis
 - CPV only infection has a poor prognosis
- Increased customer satisfaction – aids diagnosis and clinical decisions
- No detection of CCV from vaccinations
- Rapid test result: 10 minutes
- One step testing procedure: Easy to use, saving time and labour
- No additional equipment is required

Sensitivity and Specificity Study

		Nested PCR			Sensitivity: 93.1%(54/58)
		Positive	Negative	Total	
Anigen CCV Ag	Positive	54	3	57	Specificity: 97.5%(118/121)
	Negative	4	118	122	
	Total	58	121	179	

Cross Reaction Study

Pathogens	Titre	Results
Canine distemper virus	$10^{4.5}$ EID ₅₀ /ml	Negative
Canine parvovirus	10^7 TCID ₅₀ /ml	Negative
Canine parainfluenza virus	$10^{5.5}$ TCID ₅₀ /ml	Negative
Canine hepatitis virus	10^5 TCID ₅₀ /ml	Negative
Transmissible Gastroenteritis virus	10^6 TCID ₅₀ /ml	Negative
<i>Leptospira canicola</i>	OD8.0 at 560nm	Negative
20% <i>Ascaris</i> homogenates	-	Negative
<i>Giardia</i> cyst suspension	-	Negative
<i>E. coli</i> spp.	$10^{8.0}$ CFU/ml	Negative
Canine coronavirus D2	$10^{6.1}$ TCID ₅₀ /ml	Strong Positive

Test Procedures

