

# Rapid Test Kit CDV Ag

Anigen Rapid CDV Ag Test Kit is a solid phase chromatographic immunoassay for the qualitative detection of Canine Distemper virus antigen in canine secretion - conjunctiva, serum, plasma or urine.



## Background

Canine Distemper virus, Paramyxoviridae Morbillivirus, is a leading cause of death in dogs. The virus is similar to the one that causes measles in human, and has H and F envelope glycoproteins. The virus is shed in saliva, blood, urine and other body secretions, with the more virulent strains having a strong tropism for epithelial tissues. Unvaccinated dogs are highly susceptible especially between 3-6 months of age, with clinical signs including fever, cough, depression, vomiting, diarrhea, head tremors, and convulsions. With the Anigen Rapid CDV Ag test kit, CDV can be easily and accurately diagnosed in canine conjunctiva, blood, etc. within 10 minutes.

## Specifications

- Principle : Immunochromatographic assay using Direct Sandwich Method
  - Monoclonal anti-CDV (Capture) - CDV - Monoclonal anti-CDV (Detector)
- Purpose : Detection of canine distemper virus
- Specimens : Conjunctiva (recommendable), serum, plasma, urine
- Reading time : 5-10 minutes
- Sensitivity : 100% vs. RT-PCR
- Specificity : 98.5% vs. RT-PCR
- No cross reaction against CPV, CCV, ICH, PI2
- Detection limit :  $10^{1.8}$  TCID<sub>50</sub>/0.1ml
- Shelf life : 24 months
- Storage temperature: 2~30°C
- Packing size : 10 Tests/Kit
- CAT. No. : RG11-03

## Special Features

- High sensitivity : 99.9%
- Excellent tool to predict the prognosis of a CDV infected dog during treatment (weak Test line intensity indicates a decrease in viral load)
- Rapid test result : 10 minutes
- No detection of CDV from vaccinations
- Detects all strains of CDV
- Detection of CDV in serum 3 days post infection
- One step testing procedure: Easy to use, saving time and labor
- No additional equipment is required

## Clinical field trial data

1. Comparison test : Peroxidase Linked Assay (PLA, Cell ELISA), RT-PCR
2. Positive specimens:
  - A. 66 specimens confirmed by Peroxidase Linked Assay (PLA, Cell-ELISA)
  - B. 20 specimens confirmed by RT-PCR combined with nested PCR
3. Negative specimens  
Healthy canine specimens from dogs at least in 14 days after vaccination confirmed by RT-PCR

Table 1) Sensitivity comparison result with PLA

No of Specimen	Anigen Rapid CDV Ag	PLA
66	65/66(98.5%)	66

Table 2) Sensitivity comparison result with RT-PCR

No of Specimen	Anigen Rapid CDV Ag	RT-PCR
20	20/20(100%)	20

Table 3) Specificity comparison result with RT-PCR

No of Specimen	Anigen Rapid CDV Ag	RT-PCR
132	129/132(98.5%)	132

## Test Procedures

Saline Solution(not provided)

