RapiGEN CDV Ag Test

Cat No. VR0041

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Introduction

Canine distemper is a highly contagious disease of carnivores caused by a paramyxovirus. The virus is widespread and mortality in juveniles is higher than in adults. It is excreted in the saliva, respiratory secretions, urine, and feces and can be transmitted from dog to dog by aerosol and direct contact. Typical signs of canine distemper seen in the domestic dog include respiratory and intestinal problems such as coughing, diarrhea, vomiting, nasal and ocular discharge, anorexia, and hyperkeratosis of the nasal planum and feet pads.

The canine distemper virus is very resistant to cold and the majority of distemper cases in domestic dogs are observed year round. Also, due to the similarity of some of the clinical signs of canine distemper and rabies, affected animals should be handled with caution until a diagnosis is confirmed. Unvaccinated domestic dogs are fully susceptible to the canine distemper virus, therefore, annual vaccination is recommended.

Specifications

- Principle: Immunochromatographic assay
  Gold conjugate; monoclonal anti-CDV.
  Test line detector; monoclonal anti-CDV.
- Detection: Wide variants of CDV.
- Specimen: Conjunctiva, serum, whole blood
- Sensitivity: Serum 98.9% (73/74)
  Conjunctiva 98.8% (85/86)
- Specificity: Serum 98.8% (86/87)
  Conjunctiva 100% (120/120)
- No cross reaction: CCV, CPV, CPI, ICH, and E.coli
- Detection limit: $10^2 TCID_{50}$/ml
- Detection time: 5- 10 minutes
- Shelf life: 18 months
- Storage temperature: 2~30℃
- Packing size: 10 Tests/Kit.

Table 1. Sensitivity study compared with RT-PCR

Specimen	Canine serum		Canine conjunctiva	
Method	RapiGEN CDV Ag kit	RT-PCR	RapiGEN CDV Ag kit	RT-PCR
Positive	73/74	74/74	85/86	86/86
Sensitivity	73/74(98.7%)		85/86(98.8%)	

Table 2. Specificity study compared with RT-PCR

Specimen	Canine serum		Canine conjunctiva	
Method	RapiGEN CDV Ag kit	RT-PCR	RapiGEN CDV Ag kit	RT-PCR
Negative	86/87	87/87	120/120	120/120
Sensitivity	86/87(98.8%)		120/120(100%)	

Features

- Smart sample collection tube will provide simple sample collection and experiment, protection of human, animal and environment from contamination with putative infectious agents
- Quick diagnosis of CDV in the field and laboratory without additional equipment and technical skill.
- Specimen tolerance; serum and conjunctiva (eye discharge)
- High sensitivity.
- High specificity to other virus and bacteria.
- Save labor and time to deliver the specimens to clinical laboratory
- Long shelf life

Procedures