



*AccuDip*TM Canine Distemper Virus (CDV) Antigen Test Strip User Guide

(Product No. AAA-11101)

General Description

Canine Distemper Virus (CDV) causes canine distemper, a highly contagious major viral disease of domestic dogs (and sometimes ferrets). CDV is a single-stranded RNA virus of the family paramyxovirus, and thus a close relative of measles and rinderpest. This disease is commonly found on puppies of 3-6 months old, and also on young adult dogs. The early symptoms include fever of 39.5°C to 41.0°C, poor appetite and spirit, ocular and nasal secretions, sneezing, and diarrhea, before the symptoms temporarily disappear for 2-3 days. In the next 2-14 days, high body temperature and other symptoms will return and last for several weeks, together with conjunctivitis, keratitis, and in some cases corneal ulcer and perforation leading to blindness. Bacterial infection can also occur as a complication. In winter, respiratory symptoms are most prominent on dogs infected with the virus.

The *AccuDip*TM Canine Distemper Virus (CDV) test strip provides a convenient and rapid test for CDV with a colloidal gold immunochromatographic design. It detects viral antigen with two antibodies in a sandwich assay format, and can be easily performed with plasma / serum, eye and conjunctival secretions, nasal fluid, saliva, and urine samples from dogs. It is a **fast** (results shown in 5-10 minutes), **simple**, **sensitive** and **reliable** detection approach for the presence of CDV.

Intended Use

The *AccuDip*TM Canine Distemper Virus (CDV) test strip is a lateral flow strip test for the qualitative detection of Canine Distemper Virus (CDV) in plasma / serum, eye and conjunctival secretions, nasal fluid, saliva, and urine.

Safety Instructions



To receive complete safety information on this product, please contact AccuAffinity, Inc. and request Material Safety Data Sheet.

Assay Principles

AccuDip™ Canine Distemper Virus (CDV) test strip is based on a sandwich immunoassay principle. An anti-Canine Distemper Virus (CDV) antibody is conjugated to colloidal gold and placed on conjugate pad. Colloidal gold provides red color to visualize antibody-antigen binding. Another anti-Canine Distemper Virus (CDV) antibody is immobilized on nitrocellulose membrane. Test sample is loaded onto sample pad, and will subsequently mix with gold-antibody conjugate and migrate along the membrane. If the sample contains no Canine Distemper Virus (CDV) or Canine Distemper Virus (CDV) amount lower than detection limit, antibody conjugated to colloidal gold will not bind Canine Distemper Virus (CDV), and therefore will not bind the antibody immobilized on membrane. No red color will be observed on membrane detection line where the latter antibody is immobilized. If Canine Distemper Virus (CDV) is higher than detection limit in test sample, it will bind gold-antibody conjugate and subsequently the antibody immobilized on membrane to form antibody-CDV-antibody sandwich-like complex. This complex will present a red colored band on detection line on membrane. A secondary anti-mouse IgG antibody is immobilized on membrane on a separate line (control line) to ensure the validity of each strip test.

Reagents and Materials in each pack

- a) 1 strip of Canine Distemper Virus (CDV) test
- b) 1 single packed sterile swab for sample collection
- c) 1 test tube containing the sample diluent
- d) 1 pack of desiccant
- e) 1 dropper

Sample collection

- a) Test samples are plasma / serum, eye and conjunctival secretions, nasal fluid, saliva, and urine.
- b) Collect samples at multiple sites and use freshly collected samples.
- c) Mix sample with sample diluent in the mixing tube. Take supernatant for analysis.

Test Procedure

- Equilibrate test strip at room temperature (20-25°C)



- Equilibrate test sample at room temperature (20-25°C)
 - a) Use a cotton swab moistened with saline to collect dog eye and conjunctival secretions, nasal fluid, saliva, and urine. Serum / plasma samples can be used with the dropper directly (mix a drop of serum/plasma with 3 drops of diluent).
 - b) Put the swab in a test tube containing the sample diluent, stir to mix, and take supernatant with a disposable dropper to load to strip.
 - c) Remove the test strip from package and put it on the table horizontally, and load 3-5 drops of the mixture to sample loading window.
 - d) Observe result after 5-10 minutes.

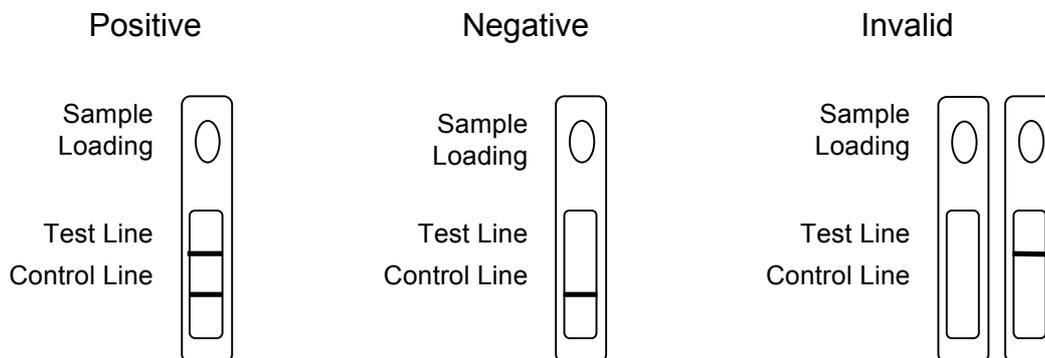
Result Interpretation

Test result is interpreted by observing test line and control line shown in result window.

Positive: test line and control line present

Negative: no test line, only control line present

Invalid test: no control line present



Precautions

1. Test strip should be stored at room temperature (20-25°C) and avoid freezing conditions
2. Test strip is for one time use
3. Test is performed at room temperature (20-25°C), strip should be equilibrated to room temperature (20-25°C) before use
4. After opening package, use the strip on the same day



5. Test samples should be equilibrated to room temperature (20-25°C) before being loaded to strip

Storage and Expiration Date

Storage: room temperature (20-25°C).

Expiration Date: 12 months after manufacturing date.

Technical Assistance

For ordering or technical assistance regarding this product, or for additional information about AccuAffinity products, please email support@accuaffinity.com or call (408) 368-1364.

General Limited Warranty

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