



*AccuDip*TM Canine Parvovirus (CPV) Antigen Test Strip User Guide

(Product No. AAA-11106)

General Description

Canine Parvovirus (CPV) is a virus mainly affecting dogs, leading to a highly contagious and potentially lethal disease, and is spread from dog to dog by direct or indirect contact with their feces. While CPV will not infect humans, it poses serious health risks for dogs.

The disease can occur all year around, although is most common in winter and spring. It has two distinct presentations, an intestinal and a cardiac form. The intestinal form is common for puppies of 3-4 months old, and is initially marked by elevated body temperature, poor spirits and appetite, and vomiting. Subsequently, the virus can cause destruction of the intestinal crypts, so that anaerobic bacteria that normally reside in the intestines can then cross into the bloodstream, leading to sepsis. The most common bacteria involved in severe cases are *Clostridia*, *Campylobacter* and *Salmonella* species. This can further lead to a syndrome known as systemic inflammatory response syndrome (SIRS), resulting in coma and quick death of the infected dogs. The cardiac form causes respiratory or cardiovascular failure in younger puppies (most commonly 4-6 weeks old), as well as light vomiting and diarrhea. Treatment often involves veterinary hospitalization. Vaccines can prevent this infection, but mortality can reach 91% in untreated cases.

The *AccuDip*TM Canine Parvovirus (CPV) test strip provides a convenient and rapid test for CPV with a colloidal gold immunochromatographic design. It detects viral antigen with two antibodies in a sandwich assay format, and can be easily performed while testing dog feces samples. It is a **fast** (results shown in 5-10 minutes), **simple**, **sensitive** and **reliable** detection approach for the presence of CPV.

Intended Use

The *AccuDip*TM Canine Parvovirus (CPV) test strip is a lateral flow strip test for the qualitative detection of Canine Parvovirus (CPV) in dog feces.



Safety Instructions

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

Assay Principles

AccuDip™ Canine Parvovirus (CPV) test strip is based on a sandwich immunoassay principle. An anti-CPV antibody is conjugated to colloidal gold and placed on conjugate pad. Colloidal gold provides red color to visualize antibody-antigen binding. Another anti-CPV 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 CPV or CPV amount lower than detection limit, antibody conjugated to colloidal gold will not bind CPV and will not bind to the antibody immobilized on membrane. There will not be any red color presented on membrane detection line where the second antibody immobilized. If CPV concentration is higher than detection limit in test sample, it will bind to gold-antibody conjugate and then bind to antibody immobilized on membrane to form antibody-CPV-antibody complex. This complex will present a red colored band on detection line on membrane. A secondary anti-mouse IgG Ab is immobilized on membrane in a separate line (control line) to ensure the validity of each strip test.

Reagents and Materials in each pack

- a) 1 strip of Canine Parvovirus (CPV) test
- b) 1 individually packed sterile swab for sample collection
- c) 1 test tube containing the sample diluent
- d) 1 pack of desiccant
- e) 1 dropper

Sample Collection and 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 sample from rectum or from fresh feces.
 - b) Put the swab in 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.

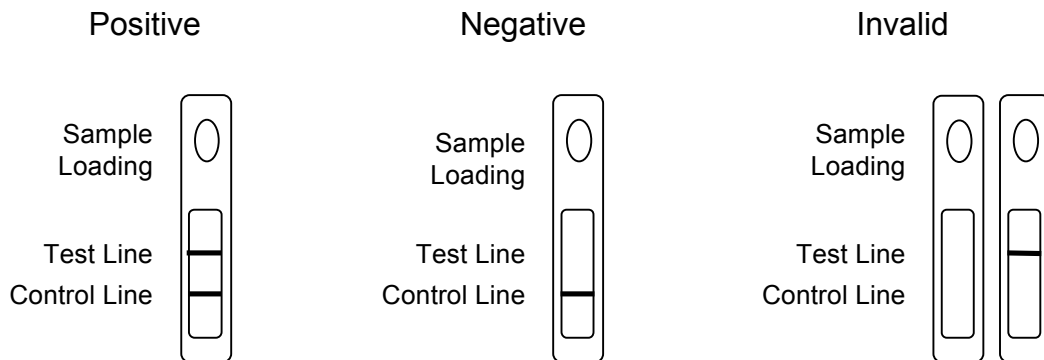
Result Interpretation

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, control line present

Invalid test: no control line present



Precautions

1. Test strip should be stored at room temperature and avoid freezing conditions.
2. Test strip is for one-time use.
3. Test is performed at room temperature (20-25°C), and 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 onto strip.

Storage and Expiration Date

Storage: room temperature (20-25°C).

Expiration Date: 12 months after manufacturing date.



AccuAffinity, Inc.
4062 Fabian Way, Suite 3B
Palo Alto, CA 94303

Tel: (408) 368-1364
Web: www.accuaffinity.com
Email: contact@accuaffinity.com

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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