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## **VETSCAN® CANINE PARVOVIRUS ANTIBODY TEST KIT, BLOT TEST**

### **Abaxis**

FOR THE RAPID QUALITATIVE DETECTION OF CANINE PARVOVIRUS ANTIGENS IN CANINE FECES

For Veterinary Use Only

### **INTENDED USE**

The VetScan Canine Parvovirus Rapid Test is a visual and rapid test for the qualitative detection of canine parvovirus antigens in feces. This test is for veterinary in-vitro diagnostic use only.

### **INTRODUCTION**

Canine parvovirus is a contagious virus that affects dogs mostly. The intestinal form of the disease causes severe vomiting and hemorrhagic diarrhea in puppies and young dogs (1,2). VetScan Canine Parvovirus Rapid Test employs a unique combination of monoclonal antibodies that give the test great specificity and sensitivity for the detection of parvovirus antigens.

### **MATERIALS AND REAGENTS PROVIDED**

1. Test Device. Each sealed pouch contains a test strip in a plastic cassette and a desiccant.
2. Sample Dilution Device. Each consists of a sampling swab and 0.7mL of Extraction Buffer with sodium azide (0.02%) as a preservative.
3. Package Insert.

### **PRECAUTIONS AND WARNINGS**

1. Parvovirus is infectious. Samples should be handled accordingly. The user should refer to the relevant section of the CDC-OHS manual "Biosafety in Microbiology and Biomedical Laboratories," 5th Edition, 2007 for handling and disposal of the specimens, devices, and reagent.
2. Extraction buffer contains sodium azide, which may react with lead and copper plumbing to form explosive metal azides. Azide build-up may be avoided by flushing drains with large volumes of water after disposal.
3. The Test Device should remain in the sealed pouch until ready for use.
4. The Test Device and the Sample Dilution Device should be used when they are at room temperature (15°-27°C, or 59°-80°F)
5. Do not use kit or materials beyond expiration date.
6. Do not mix or interchange serials of VetScan Canine Parvovirus Rapid Test devices.
7. Use a new Test Device and a new Sample Dilution Device for each testing. Do not reuse devices.

### **SPECIMEN COLLECTION**

1. Fresh samples should be used when possible. If samples cannot be used within 24 hours, they should be stored cold (2°-8°C or 36°-46°F) for up to two weeks, or kept frozen before being tested.
2. Some fecal samples contain mucous. In order to collect an accurate sample, avoid coating the swab completely with mucous material.

### **TEST PROCEDURE**

1. Remove the sampling swab from the dilution chamber of the Sample Dilution Device. Coat the sampling swab with a thin layer of fecal material or saturate the swab if the sample is liquid. Return the sampling swab back into the dilution chamber.



2. Break the seal of the Extraction Buffer storage bulb located on the top of the Sample Dilution Device by bending the bulb back and forth until the internal blue stick breaks at its base. Squeeze the bulb 5 - 6 times to thoroughly mix the sample with the Extraction Buffer.



3. Remove a Test Device from the protective pouch and place it on a flat surface.
4. Using the buffer storage bulb and the sampling swab as a pipette, transfer **3 drops** (~150µL) of the diluted sample into the round sample well of the Test Device. Hold the pipette vertically to ensure proper sample volume. Start timing.
5. Read the results between **10 minutes** and 15 minutes. Strong positive results may appear as soon as 1 minute, and weak positive results may take up to 10 minutes to appear. After 15 minutes, discard the Test Device because the results are no longer valid.

### INTERPRETATION OF RESULTS

#### Negative results

The result is negative when one red to pink line appears in the C (control) area.



#### Positive results

The result is positive when two red to pink lines appear. One red/pink line will appear in the T (test) area and one in the C (control) area. A red to pink line with any intensity in the T (test) area should be considered positive. Colored lines may be lighter or darker than each other.

#### Invalid results

The test is invalid when no colored line appears in the C (control) area, even if a red to pink line appears in the T (test) area. Repeat the test using a new cassette. Colored lines that appear after 15 minutes are not diagnostic and should be ignored.

#### STORAGE

The test kit is to be stored at room temperature (15°-27°C, or 59°-80°F) for the duration of the shelf life. Avoid the test kit being subjected to excessive heat or freezing for a long period of time.

#### SENSITIVITY AND SPECIFICITY

In an USDA approved study involving 258 samples, the VetScan Canine Parvovirus Rapid Test correctly identified 93/96 hemagglutination inhibition (HI) positive canine fecal samples and 157/162 negative canine fecal samples. The discrepant results were resolved by PCR. The sensitivity and the specificity of the test was 96.9% and 96.9%, respectively.

#### PARVOVIRUS TEST PROCEDURE

### Dilute Sample

1.



Coat the swab with a layer of sample

2.



Break the seal to release Sample Diluent

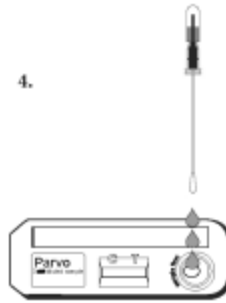
3.



Squeeze the bulb 5-6 times to completely mix the sample

### Load Diluted Sample

4.



Transfer 3 drops into the Sample Well

### Read Results



Read results within 10 minutes.

**Negative Example**



Read results within 10 minutes.

**Invalid Example**



Read results within 10 minutes.

**Invalid Example**

### REFERENCES

1. Lamm CG, Rezabek GB. Parvovirus infection in domestic companion animals. *Vet Clin North Am Small Anim Pract.* 2008 Jul;38(4):837-50, viii-ix.
2. Truyen U. Evolution of canine parvovirus--a need for new vaccines? *Vet Microbiol.* 2006 Oct 5;117(1):9-13.



Use By

**REF**

Catalog Number

**LOT**

Batch Code

**IVD**

*In Vitro*  
Diagnostic Device



Consult Instructions  
for Use



Manufacturer



Do Not Reuse



X Number of Test  
Devices in Kit

**BOX**

Manufacturing  
Sequence

**SN**

Serial

**EC REP**

Authorized  
Representative  
in the European  
Community



Temperature  
Limitation

PN:  
Part Number



Caution  
Precautions and  
Warnings

**For Veterinary Use Only**

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For Technical Assistance Call: 800-822-2947

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For patent information, see [www.abaxis.com/about\\_us/patents](http://www.abaxis.com/about_us/patents)

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**Presentation:** 10 and 20 test kits.

**CPN:** 1740002.1