

# Vcheck CAV Ab



## CANINE ADENO VIRUS

For veterinary use only

### INTENDED USE

The Vcheck CAV Ab is *in vitro* diagnostic test kit for the semi-quantitative detection of IgG to adenovirus in canine serum or plasma. The Vcheck CAV Ab is designed to be used only by veterinarians.

### PRINCIPLE

The Vcheck CAV Ab Test Kit is a chromatographic immunoassay for the semi-quantitative detection of IgG to adenovirus in canine serum or plasma. Test line and control line in the result window are not visible before applying any samples. The control line is a reference line which indicates the test is performing properly. The control line has to appear every time when the test has performed. If the target antibodies are present in the sample, a purple test line will appear in the result window. The highly selective antigens are used as both capture and detector in the assay. These antigens are capable of detecting IgG antibody to canine adenovirus in sample with high accuracy. The Vcheck Analyzer reads the presence of IgG to canine adenovirus in canine serum or plasma.

### MATERIALS PROVIDED

Reagent	10 Tests/Kit
① Vcheck CAV Ab Test device	10
② Assay diluent tube	10
③ Pipette tip	20
④ Anticoagulant tube	10
⑤ Instructions for use	1

### MATERIALS REQUIRED, BUT NOT PROVIDED

1. BIONOTE Vcheck Analyzer
2. 5  $\mu$ l pipette
3. 100  $\mu$ l pipette

### STORAGE AND STABILITY

1. Store the test kit at 2~30°C. **DO NOT FREEZE.**
2. Do not store the test kit in direct sunlight.
3. The test kit is stable within the expiration date that is marked on the package label.

### PRECAUTIONS

1. The test kit is for canine use only. Do not use for other animals.
2. The test device is sensitive to humidity as well as heat. Perform the test immediately after removing the test device from the foil pouch.
3. Do not reuse test components.
4. Apply the sample using pipette vertically.
5. Do not touch the membrane in the result window of test device.
6. Do not use the test kit beyond the stated expiration date marked on the package label.
7. Do not use the test kit if the pouch is damaged or the seal is broken.
8. Do not mix components from different lot numbers; the components in this kit have been quality control tested as a standard batch unit.
9. All samples should be handled as being potentially infectious. Wear protective gloves while handling samples. Wash hands thoroughly afterwards.
10. Decontaminate and dispose of all samples, reaction kits and potentially contaminated materials safely in accordance with national and local regulations.

### COLLECTION AND PREPARATION OF SAMPLE

1. Canine serum or plasma should be used with this test.

**[Serum]** Collect the whole blood into the collection tube (NOT containing anticoagulants such as heparin, EDTA and sodium citrate), allow to settle for 30 minutes for blood coagulation and then centrifuge to obtain serum supernatant.

**[Plasma]** Collect the whole blood into the collection tube (containing anticoagulant) such as heparin, EDTA and sodium citrate) and then centrifuge to get plasma.

2. If serum or plasma samples are not tested immediately, they should be refrigerated at 2~8°C. For longer storage, serum or plasma can be frozen (-20°C or colder). Frozen samples should be brought to room temperature (15~30°C) prior to use.
3. Samples containing precipitate may yield inconsistent test results. Such samples must be clarified prior to assaying.
4. The use of hemolytic, lipaemic, icteric or bacterially contaminated samples should be avoided. Erroneous results may occur.

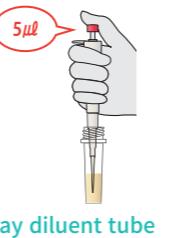
### TEST PROCEDURE

Allow all kit components and samples to reach room temperature (15~30°C) for at least 30 minutes prior to testing.

#### [Collect the samples]

##### [Serum or Plasma]

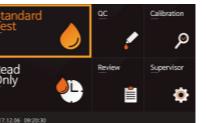
1. Collect 5  $\mu$ l of sample using a 5  $\mu$ l pipette.
2. Add the sample into the assay diluent tube and mix well.



#### [Using a V200 Analyzer]

##### "Standard Test" mode

1. Turn on V200 Analyzer and select "Standard Test" on the analyzer's screen.



2. Remove the test device from the foil pouch. Once the 'Insert Device' is displayed on the screen, insert the test device into the V200 Analyzer.



3. Use a 100  $\mu$ l pipette to mix the sample with diluent by pipetting for 5~6 times and add 100  $\mu$ l of mixed sample into the sample hole, and press [START] to initiate testing.

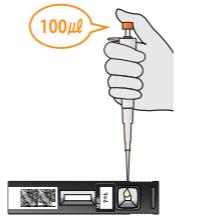


4. Read the result on the display after 10 minutes.
5. The V200 analyzer will automatically display the test result on the screen.
6. Remove the test device.



##### "Read Only" mode

1. Remove the test device from the foil pouch and place it on a flat and dry surface.
2. Use a 100  $\mu$ l pipette to mix the sample with diluent by pipetting for 5~6 times and add 100  $\mu$ l of mixed sample into the sample hole.



3. Leave the test device for 10 minutes. Note that the test device should not be left more than 13 minutes.



4. Turn on V200 Analyzer and select "Read Only" on the analyzer's screen.



5. Insert the test device into the V200 Analyzer.



6. The analyzer will automatically display the test result on the screen.
7. Remove the test device.

### INTERPRETATION OF THE RESULT

#### [V200]

##### Negative

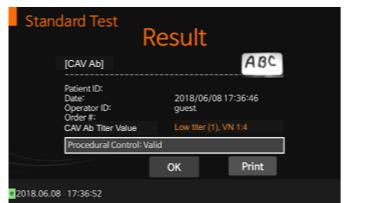
A negative result indicates the absence of IgG to canine adeno virus.



Negative (0)  
(Below 1:2 as VN titer)

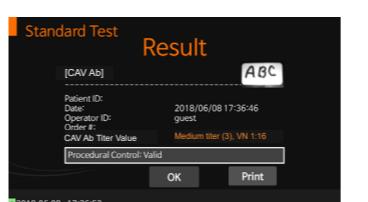
##### Positive

A positive result indicates the presence of IgG to canine adeno virus.



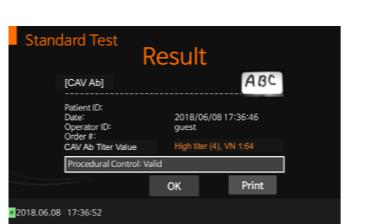
Low titer 1~2  
(1:4-1:8 as VN titer)

Antibody titer is low against CAV.



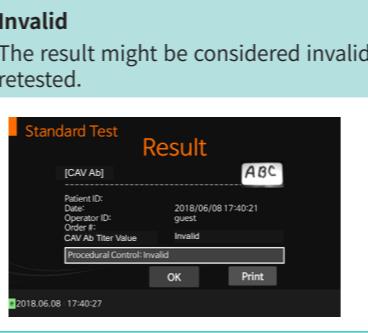
Medium titer 3~3.5  
(1:16~1:32 as VN titer)

Antibody titer is medium against CAV. This is indicative of a good immune status.



High titer 4~6  
(Above 1:64 as VN titer)

Antibody titer is high against CAV. This is indicative of a good immune status.



Invalid

The result might be considered invalid. The sample should be retested.

### LIMITATIONS OF THE TEST

1. Although the Vcheck CAV Ab Test kit is very accurate for detecting IgG to Canine Adenovirus, a low incidence of false results can occur. Other clinical and/or laboratory tests might be required if questionable results are obtained. As with all diagnostic tests, a definitive clinical diagnosis should not be based on the result of a single test, but should be diagnosed by the veterinarian after all clinical and laboratory findings have been evaluated.
2. The reading window may show a light pink background coloration; this will not affect the accuracy of the results.
3. BioNote and its distributors cannot be held responsible for the consequences of misuse or misinterpretation of the results given by the test.

### SCREEN MESSAGE AND TROUBLE SHOOTING

#### [V200]

Error message	Error description
Contaminated Device	The test device is damaged or inserted improperly. <b>Solution:</b> Discard the test device and retest with a new test device and a new specimen.
Insufficient Sample	An insufficient amount of blood has been applied. <b>Solution:</b> Retest with a new test device with enough specimen, ensuring that blood is placed in to the narrow channel in the top edge of the test device.
Expired Device	The test devices are expired. <b>Solution:</b> Retest with a new test device that is not expired.
Temperature Error	The environmental temperature is above or below the operating range of the analyzer. <b>Solution:</b> Move to an area in the acceptable temperature range for the analyzer and perform the test. Do not heat or cool the analyzer artificially.
Printer Connection Fail	The communication between analyzer and barcode or printer has failed. <b>Solution:</b> Reconnect the analyzer and external device. If the error continues after turning ON/OFF the analyzer, please contact BioNote, Inc.
Barcode Error	The measured total hemoglobin is out of the range of 7 to 23 g/dL. <b>Solution:</b> This error occurs when a specimen has a total hemoglobin in the abnormal range. If the error continues after turning ON/OFF the analyzer, please contact BioNote, Inc.
Extremely Total hemoglobin	The test is invalid. <b>Solution:</b> Retest with a new test device and a new patient specimen. If the error continues after turning ON/OFF the analyzer, please contact BioNote, Inc.
Result: Invalid	The calibration is overdue. <b>Solution:</b> If the error continues after turning ON/OFF the analyzer, please contact BioNote, Inc.
Calibration Overdue	Loading a test device that is not supported by the analyzer. <b>Solution:</b> Check whether the test device is manufactured by BioNote, Inc.
Not Supported Device	Internal error has occurred. <b>Solution:</b> If the error continues after turning ON/OFF the analyzer, please contact BioNote, Inc.
EEE	Manufactured by BioNote, Inc.

