

Ani™ CDV

A SIMPLE AND RELIABLE RAPID TEST FOR THE DETECTION OF CANINE DISTEMPER VIRUS (CDV) ANTIGEN

Cat.no. 1-010-010

Carefully read the instructions for use before use and interpret the result in a well-illuminated place.

INTRODUCTION

Canine distemper virus (CDV) is a highly contagious morbillivirus in the *Paramyxoviridae* family that induces a systemic and fatal disease among marine mammals, noncarnivore, and carnivore species including domestic dogs (3,4,5,6). CDV causes an infection in the central nervous system with consequential demyelinating disease, and can also result gastrointestinal and/or respiratory signs (1). Despite the vaccination of domestic dog populations, sporadic cases occur. In addition, puppies are susceptible in getting CDV infection prior to vaccination and after the maternal antibodies are lost (2). To prevent spreading of CDV infection, rapid detection of CDV is crucial.

TEST PRINCIPLE

Ani™ CDV is a rapid qualitative immunoassay based on the immunochromatographic sandwich principle. The sample is taken as a swab sample either from ocular fluid/mucus, nasal discharge, or vaginal/preputinum mucus. The method employs a unique combination of highly specific anti-CDV antibody-dye conjugate (gold), and anti-CDV solid phase antibody to selectively identify CDV antigen with high degree of sensitivity.

TEST COMPONENTS

Ani™ CDV, Cat. no. 1-010-010

- Instructions for use
- 10 pcs individually packed disposable test devices
- 10 pcs Ready-to-use sample vials containing 0,4 ml Ani™ CDV Buffer
- 10 pcs sterile sampling swabs
- 10 pcs Disposable pipettes
- 0,5 ml Ani™ CDV Positive Control

Materials needed but not provided

- timer

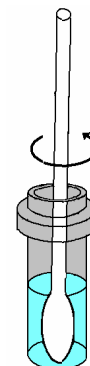
TEST PROCEDURE

1. Collection of the specimen

Ocular fluid/mucus, nasal discharge, or vaginal/preputinum specimens should be collected in the acute phase of infection, when large amounts of virus are excreted.

2. Handling of samples prior testing

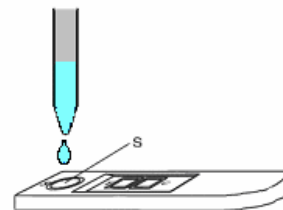
Place a ready-to-use sample vial containing Ani™ CDV Buffer in a workstation. Ocular fluid/mucus, nasal discharge, or vaginal/preputinum mucus specimens are collected using a cotton swab. Avoid taking too much snivel, if present, to the swab. The swab containing the sample is placed in the sample vial. The ocular fluid/mucus, nasal discharge, or vaginal/preputinum mucus sample is suspended in the Ani™ CDV Buffer by rotating the swab. Allow the swab to stay in the buffer for 5 minutes. Rotate occasionally.



Remove the swab from the vial. Samples can be stored for few hours refrigerated before the testing procedure.

3. Testing procedure

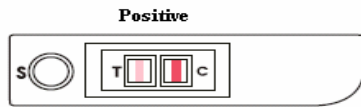
Take the test from the aluminium foil pouch just before use and place it horizontally to the table in well illuminated place. Remove a few drops of sample with the pipette. Hold the pipette containing the sample vertically over the round application field (S) and drop 3 drops onto it. After applying the drops, do not touch and move the test card for 2 minutes. The test result can be read after 5 minutes. Note that a positive result can be read as soon as the test and control lines are clearly visible, which takes place in the majority of cases in less than 2 minutes. Do not read the test after more than 10 minutes



4. Interpretation of the results

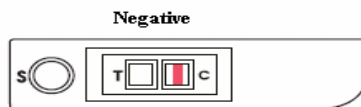
POSITIVE RESULT

A positive result is indicated by the appearance of both test and control lines. This can happen with clear positive sample already within 2 minutes and with weak positive samples in 5-10 minutes.



NEGATIVE RESULT

A negative result is indicated by the appearance of one red line, the control line, only. This is also an indication of proper performance of the test.



If the control line is not visible, the test is inconclusive, whether or not the test line is visible. A new test must be performed.

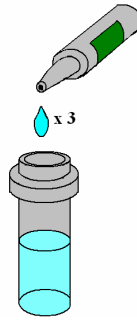
STORAGE

Test packages can be stored at ambient temperature (+2 ... +27 °C), until expiry date. The expiry date is indicated on the outer package, test pouch, as well as at the AniTM Positive Control bottle, and on plastic bag containing AniTM CDV Buffer vials. AniTM CDV Positive Control should be kept in refrigerator (+2 ... +8 °C).

CONTROLS

The proper performance of AniTM CDV can be checked by means of AniTM CDV Positive Control, or with a known CDV positive

specimen. Add 3 drops of AniTM CDV Positive Control to the AniTM CDV Buffer vial.



Perform the testing as described above in TEST PRODECURE, section 3. Testing Procedure.

AniTM CDV Buffer may be used as a negative control. Perform the testing as described above in TEST PRODECURE, section 3. Testing Procedure.

WARNINGS AND LIMITATIONS

Follow the instructions for use carefully; a failure to do so may result in false test results. AniTM CDV test may only be used for *in vitro* qualitative detection of CDV antigen from ocular fluid/mucus, nasal discharge, or vaginal/preputinum mucus specimen according to the instructions for use.

A diagnosis should not be made solely according to the AniTM CDV test result. The result should be used in conjunction with additional diagnostic information available for the veterinarian.

Do not use the test if the foil pouch is damaged. Do not use expired tests or reagents. Use only the reagents from the same kit. Use each test strip only once. Do not use tests from a kit not showing proper performance when tested with controls.

The test should be performed in accordance with generally accepted virological principles of handling and containment of potentially hazardous samples. All samples are potential pathogens. Used materials and samples should be disposed of with appropriate caution.

Sodium Azide has been added 0,09 % to the reagents as a preservative. Avoid contact with skin and mucous membranes.

Positive control contains materials derived from animals. Handle with appropriate care.

REFERENCES

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4. Garner GW, Evermann JF, Saliki JT, Follmann EH & McKeirman (2000) *Polar biology* 23(7):474-478.
5. Harder TC, Willhaus T, Frey H-R & Liess B (1990) J. Vet. Med. Ser B 37:641-65
6. Myers DL, Zurbriggen A, Lutz H & Pospischil (1997) Clin.Diagn. Lab.Immunolog. 4:180-184.

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