

Anigen Rapid CDV Ag Test Kit

■ Principles

The Anigen Rapid CDV Ag Test Kit is a chromatographic immunoassay for the qualitative detection of Canine Distemper virus antigen in conjunctiva, urine, serum or plasma.

The Anigen Rapid Canine Distemper virus Ag Test Kit has a letter of “T” and “C” as test line and control line on the surface of the device. Both the test line and control line in result window are not visible before applying any samples. The control line is used for procedural control. Control line should be always appeared. If the test procedure is performed properly and the test reagents of control line are working. A purple test line will be visible in the result window if there is enough Canine Distemper virus antigen in the specimen.

The specially selected Canine Distemper virus antibodies are used in test band as both capture and detector materials. These enable the Anigen Rapid CDV Ag Test Kit to identify Canine Distemper virus antigen in conjunctiva, urine, serum or plasma with a high degree of accuracy.

■ Materials provided (10 tests/kit)

- 1) Ten(10) Anigen Rapid CDV Ag Test Kits
- 2) Ten(10) Specimen tubes containing assay diluent buffer
- 3) Ten(10) Sample collection swabs
- 4) Ten(10) Disposable droppers
- 5) One(1) Instruction for use

■ Precautions

- 1) For veterinary diagnostic use only.
- 2) For best results, strict adherence to these instructions is required.
- 3) All specimens should be handled as being potentially infectious.
- 4) Do not open or remove test kit from their individually sealed pouches until immediately before their use.
- 5) Do not use the test kit if the pouch is damaged or the seal is broken.
- 6) Do not reuse test kit.
- 7) All reagents must be at room temperature before running the assay.
- 8) Do not use reagents beyond the stated expiration date marked on the label.
- 9) The components in this kit have been quality control tested as standard batch unit.
Do not mix components from different lot numbers.

■ Storage and Stability

The kit can be stored at room temperature(2~30℃) or refrigerated. The test kit is stable through the expiration date marked on the package label. **DO NOT FREEZE.** Do not store the test kit in direct sunlight.

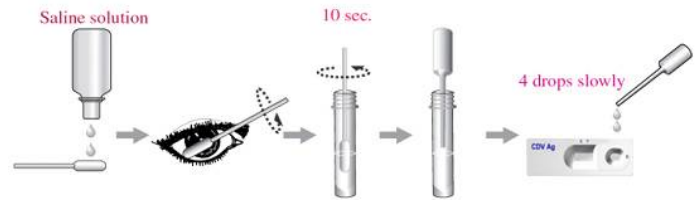
■ Specimen Collection and Preparation

- 1) The test should be performed using the canine secretion of eye(the conjunctiva), saliva, urine, serum or plasma.
- 2) After collecting the specimen using swab, the specimen should be immediately extracted and tested.
- 3) If specimens are not immediately tested, they should be refrigerated at 2~8℃. For storage not less than 48 hours, freeze the specimen at -20℃ or below.

■ Procedure of the test

- 1) Collect the samples from conjunctiva or urine using the sample collection swab pre-wetted with saline solution. In case of serum or plasma samples, you can use the dropper.
- 2) Insert the swab into the specimen tube containing 300ul of assay diluent. In case of serum or plasma samples, add 2-3 drops of the serum or plasma into the specimen tube containing 300ul of assay diluent using the dropper.
- 3) Mix the swab samples with assay diluent to extract well.
- 4) Remove the test device from the foil pouch, and place it on a flat and dry surface.
- 5) Add four (4) drops of the mixed sample into the sample hole using the dropper, drop by drop and slowly
- 6) As the test begins to work, you will see purple color move across the result window in the center of the test device. If the migration has not appeared after 1 minute, add one more drop of the mixed sample to the sample well.
- 7) Interpret test results at 5-10 minutes.

[Figure for test procedures]

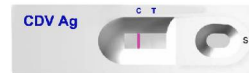


■ Interpretation of the test

A color band will appear in the left section of the result window to show that the test is working properly. This band is the control band. The right section of the result window indicates the test results. If another color band appears in the right section of the result window. This band is the test band.

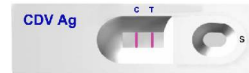
1) Negative result

The presence of only one band within the result window indicates a negative result.



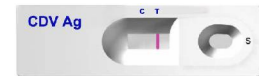
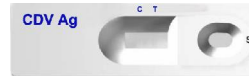
2) Positive result

The presence of two color bands (“T” and “C”) within the result window, no matter which band appears first indicates a positive result.



3) Invalid Result

If the purple color band is not visible within the result window after performing the test, the result is considered invalid. The directions may not have been followed correctly or the test may have deteriorated. It is recommended that the specimen be re-tested.



■ Limitations of the test

Although the Anigen Rapid Canine Distemper virus Ag Test kit is very accurate in detecting Canine Distemper virus antigen, a low incidence of false results can occur. Other clinically available tests are required if questionable results are obtained. As with all diagnostic tests, a definitive clinical diagnosis should not be based on the results of a single test, but should only be made by the veterinarian after all clinical and laboratory findings have been evaluated.

■ Bibliography of suggested reading

- 1) Tsuyoshi GEMMA, Naoko MIYASHITA, Yeon-Sil SHIN, Masatsuge OKITA, Takeshi MORI, Kiyoko IWATSIKI, Takeshi MIKAMI and Chieko KAI “ Serological Survey of Cnine Distemper Virus Infection Using enzyme Linked Immunosorbent Assay “ J. Vet. Med. Sci.57(4) : 761~63, 1995
- 2)Yeon-Sil SHIN, Takeshi MORI, Masatsuge OKITA, Twuyochi GEMMA, Chieko KAI and Takeshi MIKAMI “Detection of Canine Distemper Virus Nucleocapsid Protein Gene in Canine Peripheral Blood Mononuclear Cells by RT-PCR” J Vet. Med Sci. 57(3) : 439-445, 1995
- 3)Jeremiah T.Saliki and Terry W. Lehenbauer “ Monoclonal Antibody- Based Competitige Enzyme- Linked Immunosorbent Assay for Detection of morbillivirus Antibody in Marine Mammal Sera “ Journal of Clinical Microbiology, Vol. 39, No. 5, May 2001, P. 1877~1881
- 4) Veronika von Messling, Timm C. Harber, Volker Moening, Peter Rautenberg, Ingo Molte and Ludwig Haas “Rapid and Sensitive Detection of Immunglobulin M(IgM) and IgG antigodies againse Canine Distemper Virus by a New Recombineant Nucleocapsid Protein – Based Enzyme-Linked Immunosorbent Assay” Journal of Clinical Microbiology Vol. 37, No. 4 Apr. 1999, P. 1049-1056
- 5) Suyochi GEMMA, Kiyoko IWATSIKI, Ueon-Sil SHIN, Emi YOSHIDA, Chieko KAI, and Takechi MIKAMI “Serological Analysis of Canine distemper Viurs Using an Immunocapture ELISA” J. Vet. Med. Sci.58 (8) : 791~794, 1996

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