One-step Canine Distemper virus, Adenovirus and Influenza virus Antigen Test

Anigen Rapid CIRD-3 Ag Test Kit

■ Principles

The Anigen Rapid Canine Infectious Respiratory Disease (CIRD)-3 Ag Test Kit is a chromatographic immunoassay for the qualitative detection of canine infectious respiratory disease antigens such as: **Canine Distemper virus, Canine Adenovirus (Infectious Canine Hepatitis)** and **Canine Influenza virus** in conjunctiva and nasal discharge. **The Anigen Rapid CIRD-3 Ag Test Kit** has a letter of "T" "T1" "T2" and "C" as test line and control line on the surface of the device. Both the test line and the control line in the result window are not visible before applying any samples. Control line should be always appear if the test procedure is performed properly and the test reagents of the control line are working. A test line will be visible in the result window if there are enough Canine Distemper virus antigens, Canine Adenovirus antigens and/or Canine Influenza virus antigens in the specimen.

The specially selected Canine Distemper virus antibodies, Canine Adenovirus antibodies and Canine Influenza virus antibodies are used in test band as both capture and detector materials. These enable the Anigen Rapid CIRD-3 Ag Test Kit to identify Canine Distemper virus, Canine Adenovirus and Canine Influenza virus in conjunctiva and nasal discharge with a high degree of accuracy.

■ Materials provided (10 tests/kit)

1) Ten(10) Anigen Rapid CIRD-3 Ag Test Devices
2) Ten(10) Assay dileunts
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 there 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) Do not mix components from different lot numbers. The components in this kit have been quality control tested as standard batch unit.

■ Storage and Stability

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

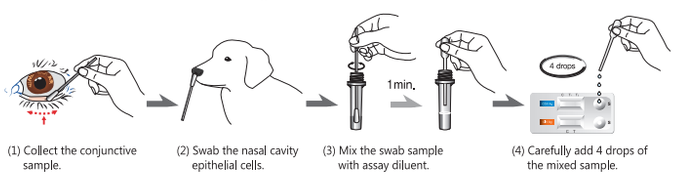
■ Specimen Collection and Preparation

1) The test should be performed using the canine secretion of eye (the conjunctiva) and nasal discharge simultaneously.
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 and nasal discharge using the sample collection swab pre-wetted with saline solution.
2) Insert the swab into the assay diluents and 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) Respectively, add four (4) drops of the mixed sample into the 2 sample holes 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 10 minutes.

[Figure for test Procedure]



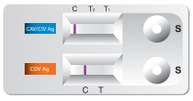
(1) Collect the conjunctive sample. (2) Swab the nasal cavity epithelial cells. (3) Mix the swab sample with assay diluent. (4) Carefully add 4 drops of the mixed sample.

■ 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(C) as a procedural control. 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. (T, T1, and T2).

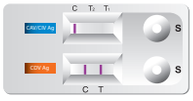
1) **Negative result**

The presence of only one band within the result window on both of the CAV/CIV Ag and CDV Ag test area indicates a negative result.



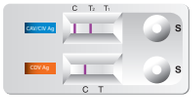
2) **CDV Ag Positive result**

The presence of two color bands ("T" and "C") within the result window on CDV Ag test area, no matter which band appears first indicates a positive result of canine Distemper virus.



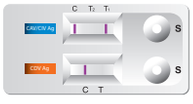
3) **CAV Ag Positive result**

The presence of two color bands ("T2" and "C") within the result window on CAV/CIV Ag test area, no matter which band appears first indicates a positive result of canine Adenovirus.



4) **CIV Ag Positive result**

The presence of two color bands ("T1" and "C") within the result window on CAV/CIV Ag test area, no matter which band appears first indicates a positive result of canine Influenza virus.



5) **Invalid Result**

If the control 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.

■ Limitation of the test

Although the Anigen Rapid CIRD-3 Ag Test kit is very accurate in detecting Canine Distemper virus, Canine Adenovirus and Canine Influenza virus, 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, Kiyoco IWATSIKI, Takeshi MIKAMI and Chieko KAI " Serological Survey of Cnine Distemper Virus Infection Using enzyme Linked Immunosorvent 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) Rodriguez-Tovar LE, Ramírez-Romero R, Valdez-Nava Y, Nevárez-Garza AM, Zárate-Ramos JJ, López A. Combined distemper-adenoviral pneumonia in a dog.Can Vet J. 2007 Jun;48(6):632-4.
4) Rycroft AN, Tsounakou E, Chalker V.Serological evidence of Mycoplasma cynos infection in canine infectious respiratory disease.Vet Microbiol. 2007 Mar 10;120 (3-4):358-62.

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