One-step Canine Heartworm Antigen Test

Canine Heartworm Antigen Test Kit

Principles

The Anigen Rapid Canine Heartworm Antigen Test Kit is a chromatographic immunoassay for the qualitative detection of Canine Dirofilaria immitis antigen in canine serum, plasma, or whole blood.

The Anigen Rapid Canine Heartworm Antigen Test Kit has a letter “T” 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. The control line is used for procedural control. The Control line should always appear if the test procedure is performed properly and the test reagents of the control line are working. A purple color at the test line will be visible in the result window if there are heartworm antigens in the specimen.

The specially selected Canine Dirofilaria immitis antibodies are used in the test band as both capture and detector materials. These enable the Anigen Rapid Canine Heartworm Antigen Test Kit to identify Canine Dirofilaria immitis antigen in canine serum, plasma, or whole blood with a high degree of accuracy.

Materials provided (10 or 100 Tests/Kit)
1) Ten (10) or one hundred (100) Anigen Rapid Canine Heartworm Antigen Test Devices
2) One (1) Bottle containing 3ml of assay diluent for 10 tests and four (4) bottle containing 3ml of assay diluent for 100 tests
3) Ten (10) or one hundred (100) Disposable droppers for specimen
4) One (1) Instructions 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 devices from their individually sealed pouches until immediately before their use.
5) Do not use the test device if the pouch is damaged or the seal is broken.
6) Do not reuse test device.
7) All reagents must be at room temperature (15~30°C) 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.
10) The assay diluent contains sodium azide, a hazardous chemical. Dispose of used product by wrapping with paper and putting in garbage.

Storage and Stability

The kit can be stored at room temperature or refrigerated (2~30°C). DO NOT FREEZE.

Specimen Collection and Preparation

1) The test can be performed with serum, plasma, or whole blood with anticoagulant such as EDTA or heparin.
2) If specimens are not immediately tested, they should be refrigerated at 2-8°C. For storage more than 48 hours, freeze the specimen at -10°C or below.
3) Invalid result
4) Negative result
5) Positive result
6) In vitro diagnostic
7) Store between 2~30°C
8) Read insert for full information

Limitations of the test

Although the Anigen Rapid Canine Heartworm Antigen Test kit is very accurate in detecting Canine Dirofilaria immitis 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

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3) William M. O. Boto, Kendal G. Powers and David A. Levy: Antigens of Dirofilaria immitis which are immunogenic in the canine host: detection by immune-staining of protein blots with the antibodies of occult dogs; J. Immunol., 133(2), 1984, 975~980
6) L.C. Wang: Comparison of a whole blood agglutination test and ELISA for the detection of the antigens of Dirofilaria immitis in dogs; Ann Trop Med Parasitol, 92(1), 1998, 73~77

Key for symbols on box

IVD: In vitro diagnostic
Store between 2~30°C
Read insert for full information

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1) Negative result
The presence of only one purple color band within the result window indicates a negative result.

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

3) Invalid result
If the control purple colored band (“C”) 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.

Interpretation of the test
A colored band “C” 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.