

## Anigen Rapid **Canine Heartworm Ag** Test Kit 2.0

### ■ Principles

The **Anigen Rapid Canine Heartworm Ag Test Kit 2.0** 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 Ag Test Kit 2.0 has the letter “T” and “C” as the test line and control line on the surface of the device.

Both the test line and control line in the result window are not visible before applying any samples. The control line is used for procedural control, and should always appear if the test procedure is performed properly and the test reagents of the control line are working. A purple test line will be visible in the result window if there is enough heartworm antigen in the specimen.

Specially selected Canine *Dirofilaria immitis* antibodies are used in the test band as both capture and detector materials, which enable the Anigen Rapid Canine Heartworm Ag Test Kit 2.0 to identify Canine *Dirofilaria immitis* antigen in canine serum, plasma, or whole blood with a high degree of accuracy.

### ■ Materials provided (10 tests/kit)

- 1) Ten (10) CHW Test cassettes
- 2) Ten (10) Disposable Droppers
- 3) One (1) Instruction for use
- 4) Ten (10) Anticoagulant tube

### ■ Precautions

- 1) For veterinary diagnostic use only.
- 2) For the best results, strict adherence to the instructions is required.
- 3) All specimens should be handled as being potentially infectious.
- 4) Do not open or remove test cassettes from their individually sealed pouches until immediately before use.
- 5) Do not use the test cassette if the pouch is damaged or the seal is broken.
- 6) Do not reuse test cassettes.
- 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 a batch unit.  
Do not mix components from different lot numbers.

### ■ Storage and Stability

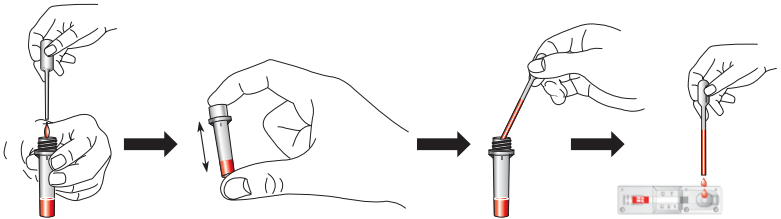
The kit can be stored at room temperature (2–30°C) or refrigerated. The test kit is stable through to the expiration date marked on the package label. **DO NOT FREEZE**. Do not store the test kit in direct sunlight.

### ■ Specimen Collection and Preparation

- 1) The test should be performed using serum, plasma, or whole blood (anticoagulated). Please follow the below method for Specimen collection and Preparation.
- 2) If the test kit and specimens are stored refrigerated, they should be brought to room temperature prior to use.

#### [Whole blood]

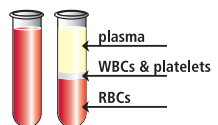
- (1) Blood should be collected with a disposable syringe and added to a tube containing anticoagulant (Heparin, EDTA, or Citrate).  
For the user's convenience, Anigen Rapid Canine Heartworm Ag Test Kit 2.0 provides Anticoagulant tubes containing 20ul of EDTA. Please follow the directions below.



- A. Put the collected blood sample into the EDTA tube.
  - B. Close the cap on the EDTA tube and invert the tube five times to mix the blood and the EDTA.
  - C. Collect the blood sample mixed with EDTA, by using the disposable dropper.
  - D. Add 2 drops into the sample hole and Interpret test results in 5–10 mins
- (2) Collected blood should be tested immediately or within 4 hours at room temperature. It may be stored at 2–8°C for 24 hours.
  - (3) Severely hemolyzed blood samples may affect the result.

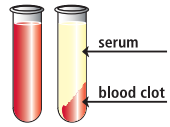
#### [Plasma]

- (1) Blood should be collected with a disposable syringe and added to a tube containing anticoagulant (Heparin, EDTA, or Citrate), and then separate plasma by centrifugation.
- (2) Plasma may be stored at 2–8°C for up to 2 weeks, for longer storage (1 year) freeze at below -20°C.



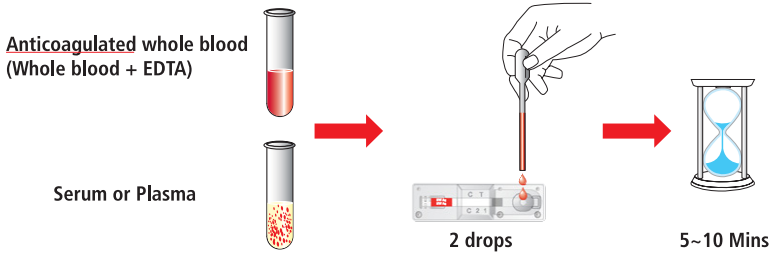
### [Serum]

- (1) Blood should be collected with a disposable syringe and added to a serum collection tube (no anticoagulant).
- (2) Collected blood should be left at room temperature for 30 minutes to coagulate, and then separate serum by centrifugation.
- (3) Serum may be stored at 2~8°C for up to 2 weeks, for longer storage (1 year) freeze at or below -20°C.



### ■ Procedure of the test

- 1) Remove the test cassette from the foil pouch, and place it on a flat and dry surface.
- 2) Collect some sample using the disposable dropper.
- 3) Add 2 drops (approximately 80ul) of canine serum, plasma or anticoagulated whole blood into the sample hole.  
\* If the migration across the window has not begun after 1 minute, add one more drop of sample to the sample well.
- 4) As the test begins to work, you will see purple color move across the result window in the center of the test device.
- 5) **Interpret test results at 5 ~ 10 minutes. Do not interpret after 10 minutes.**

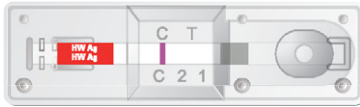


### ■ Interpretation of the test

A color band will appear at the C line in the left section of the result window to show that the test is working properly, this is the control band. The T line in the right section of the result window indicates the test result.

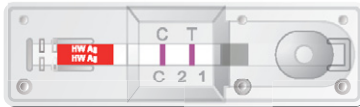
#### 1) Negative result

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 Heartworm Ag Test kit 2.0 is very accurate in detecting Canine heartworm 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.

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