

Canine Heartworm Antigen Test Kit

Catalog No. CHW-1 Test (Single Test Kit)

Catalog No. CHW-5 Test (Five Test Kit)

Catalog No. CHW-15 Test (Fifteen Test Kit)

Catalog No. CHW-30 Test (Thirty Test Kit)

Catalog No. CHW-50 Test (Fifty Test Kit)

I. Disease Background Information

Dogs are considered the definitive host for heartworms, known by the scientific name of *Dirofilaria immitis*. However, heartworms may infect more than 30 species of animals, including humans. This worm is transmitted when a mosquito carrying infective heartworm larvae bites a dog. The larvae grow, develop, and migrate in the body over a period of several months to become sexually mature male and female worms. These worms reside in the heart, lungs, and associated blood vessels. Even as immature adults, the worms mate and the females release their offspring, known as microfilariae, into the blood stream. The time elapsed from when the larvae enter the dog, until the minute offspring can be detected in the blood (pre-patent period), is about six to seven months.

II. Test Principle

This test is a rapid (10 minute) assay based on the detection of adult female *Dirofilaria* antigen present in the dog's serum, plasma or whole blood. The assay uses sensitized gold particles to bind up this antigen and deposit at the test line. The accumulation of this gold particle/antigen complex at the test line results in a band (line) that can be seen visually. A second control line indicates that the test has been performed correctly.

III. Kit Contents

- 1, 5, 15, 30 or 50 pouch(es) containing test device(s)
- 1, 5, 15, 30 or 50 transfer pipette(s)
- 1 dropper bottle containing the chase buffer
- Instructions for Use

IV. Precautions

- Use the kit before the expiration date stamped on the kit box.
- Store the kit between 2 °C and 25 °C (36 °F to 77 °F). Allow the kit to come to room temperature 15 °C to 25 °C (59 °F to 77 °F) before using.
- Open the pouch containing the device immediately before use.
- Run the test on a flat, horizontal surface. Hold the sample pipette and chase buffer vertically when adding reagents to the sample window of the test device.
- Do not touch the white membrane surface at any time. This could tear the membrane resulting in an inaccurate test.
- Add only the correct amount of sample and chase buffer to the device.

V. Test Procedure

1. Bring kit and its contents to room temperature (if needed).
2. Tear open the pouch and place the test device on a flat, horizontal surface.
3. Add the drop of sample to the sample window by squeezing the bulb on the pipette. (Diagram 1)
4. Add 2 drops of chase buffer **immediately** to the sample window. (Diagram 2)
5. Set timer for 10 minutes, start timer after addition of chase buffer. (Diagram 3)
6. Interpret results after 10 minutes. (Diagram 4)

VI. Reading Results (Diagram 4)

Hold sample at a comfortable distance from the eyes under adequate light so that the line(s) are clearly visible.

VII. Interpretation

Refer to Diagram #4 in this instruction manual.

- If two lines are visible (one at the test line and one at the control line) – the sample is positive.
- If one line is visible (ONLY at the control line) – the sample is negative.
- If no lines are visible, or if only one line is present at the test position (but not the control position), the test is invalid and must be rerun.

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Diagram 1

Add the drop of sample to the sample window by squeezing the bulb on the Plastic Sample Dropper.

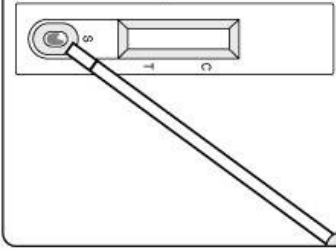


Diagram 2

Add 2 drops of chase buffer to the sample window.

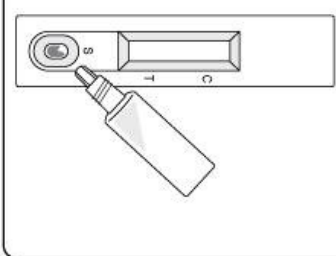


Diagram 3

Set timer for 10 minutes

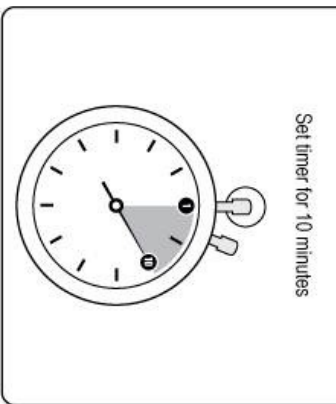
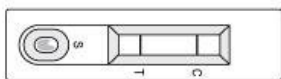
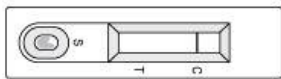


Diagram 4

Positive
(2 Visible Lines)



Negative
(1 Visible Line)



Invalid
(0 Lines or 1 Visible Line in the (C Area)

