

CHW Ag Test

Canine Heartworm Antigen (CHW Ag) Test

Principle

Canine CHW Ag Test is a chromatographic immunoassay kit for rapid and qualitative detection of CHW antigen in canine blood.

The nitrocellulose membrane of the kit is immobilized with CHW-specific antibody in test line and with anti-mouse antibody in control line. And also, CHW-specific antibody is conjugated to the colloidal gold particles. This conjugate is placed on a polyester or glass fiber as conjugate pad.

When the sample is dropped into the sample well on the device, the solubilized conjugate migrates with the sample by passive diffusion and both the conjugate and sample come into contact with the antibody that immobilized onto the nitrocellulose. If the sample contains CHW antigen, the result is visible as red line within ~10 minutes in the test line on the membrane. The solution continues to migrate to encounter a control reagent that binds a control conjugate, thereby producing another red control line.

Materials Provided

Canine CHW Ag Test (Art.No. 40401-03/04) contains the following components:

- 5/10 test devices individually foil-pouched with a desiccant.
- One (1) assay solution in bottle.
- 5/10 capillary tubes (having indicator line for 10 µl of specimen)
- 5/10 anticoagulant tubes.
- One (1) instruction manual for use.

Precautions

- The presence of humidity may decrease the stability of the reagents.
- Do not use the kit after the expiration date and do not freeze.
- For veterinary use only.
- Wear protective gloves while handling samples and wash hands thoroughly after test.
- Dispose all the specimens and kits properly after test, in accordance with GLP.
- Never use reagents from another kit.
- Discard the Assay solution if it is contaminated with bacteria or mold.

Storage & Expiration

- Canine CHW Ag Test should be stored between 2 to 30°C (36~86°F)
- Expiration date of this kit is 18 months after its manufacture date.

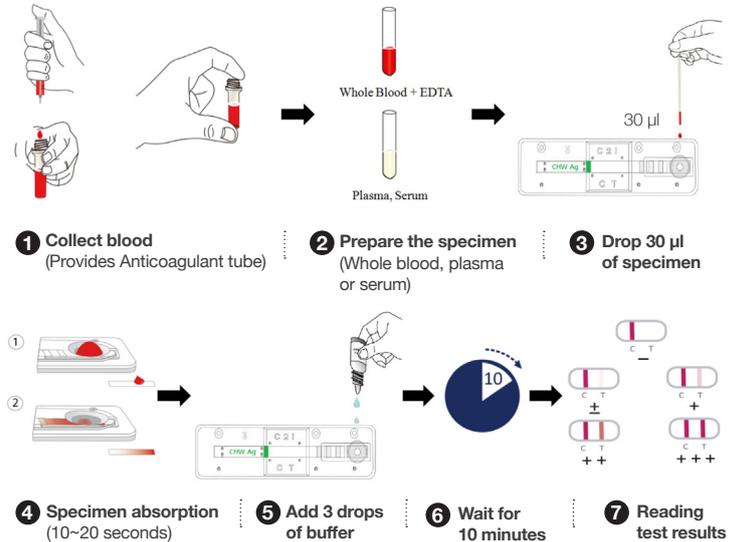
Specimen Collection and Storage

- Specimen to be tested should be obtained and handled by standard methods for their collections.
 - Serum*: Allow the blood to clot, then centrifuge to separate the serum.
 - Plasma*: Collect the whole blood into the tube contained anticoagulants such as EDTA. Centrifuge the blood and separate the plasma.
 - Whole blood*: Collect an anticoagulated blood sample in EDTA using standard clinical laboratory procedures. Anticoagulated whole blood samples should be tested within 24 hours of drawing. If delays are expected between sampling and testing, the sample should be stored on ice or refrigerated (2~8°C), but should not be frozen.
- Serum and plasma should be tested as soon as they are prepared. If necessary, they may be stored at 2~8°C for up to 24 hours or at -20°C for longer periods.

Test Procedure

- Place all specimens, test devices and Assay solution and allow them to room temperature prior to testing (15~30min).
- Prepare the test device as you need, and then mark the patients, ID onto the device. Please perform the test immediately after removing the device from foil pouch.
- Load 1 drop of specimen into the sample well with capillary tubes. The specimen volume to indicator line is 30 µl.
- Wait for the specimen to absorb (10~20 seconds).
- Add 3 drops of Assay solution into the sample well.
- Interpret the testing result within 10 minutes. Do not read the result after 20 minutes.

TEST PROCEDURE:



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).
- 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).

A. Negative result

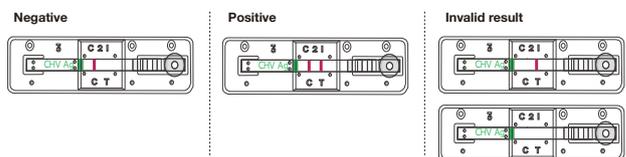
The presence of only one band within the result window indicates a negative result.

B. 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.

C. 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

Canine CHW Ag Test is designed for primary screening test of canine heartworm infection. This kit can provide fast and easy way to get a very accurate result, but do not completely exclude the possibility of false positive or false negative result caused by various factors. So, refer to the result of this kit, please make a final decision with clinical manifestation, other test result, and veterinarian's view, collectively.