

Ehrlichia – Anaplasma – Babesia gibsoni - Heartworm Combo Test (Asian Tick-4)

Catalog No.: JCA038D

✧ INTENDED USE

The Canine Asian Tick-4 Combo Test is a lateral flow immunochromatographic assay for the qualitative detection of Ehrlichia canis antibodies (EHR), Anaplasma spp (ANA) antibodies and Babesia gibsoni (BAB) antibodies and Heartworm (CHW) antigens in dog's serum specimen.

Assay Time: 5-10 minutes

✧ PRINCIPLE

The Canine Asian Tick-4 Combo Test is based on sandwich method lateral flow immunochromatographic assay. The test card has a testing window for the observation of assay running and result reading. The testing window has an invisible T (test) zone and a C (control) zone before running the assay. When the treated sample was applied into each sample hole on the device, the liquid will laterally flow through the surface of the test strip and react with the pre-coated Ehrlichia, Anaplasma, Babesia recombinant antigens and heartworm antibodies respectively. If there are Ehrlichia, Anaplasma, Babesia gibsoni antibodies and Heartworm antigens in the specimen, a visible T line will appear. The C line should always appear after a sample is applied, which indicates a valid result. By this means, the device can accurately indicate the presence of Ehrlichia, Anaplasma, Babesia gibsoni antibodies and Heartworm antigens in the specimen.

✧ REAGENTS AND MATERIALS

- Test devices
- Disposable droppers
- Assay buffers
- Disposable capillary droppers
- Products Manual

✧ STORAGE AND STABILITY

The kit can be stored at room temperature (4-30°C). The test kit is stable through the expiration date (24 months) marked on the package label. DO NOT FREEZE. Do not store the test kit in direct sunlight.

✧ SPECIMEN PREPARATION AND STORAGE

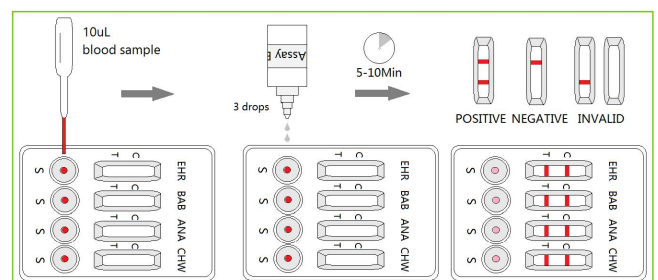
- Specimen should be obtained and treated as below.
- Serum or plasma: collect the whole blood for the patient dog, centrifuge it to get the serum, or place the whole

blood into a tube which contains anticoagulants to get plasma.

- Whole blood: collect fresh blood for use directly or make anticoagulant blood for storage at 2-8°C.
- All specimen should be tested immediately. If not for testing right now, they should be stored at 2-8°C.

✧ TEST PROCEDURE

- Allow all materials, including specimen and test device, recover to 15-25°C before running the assay.
- Take out the test card from the foil pouch and place it horizontally.
- Use the capillary dropper to place 1 drop (approx. 10 µL) of the prepared specimen into each sample hole "S" of the test card. Then drop 3 drops (approx. 90 µL) of the assay buffer into each sample hole. Start the timer.
- Interpret the result in 5-10 minutes. Result after 10 minutes is considered as invalid.



✧ INTERPRETATION OF RESULTS

- Positive (+): The presence of both "C" line and zone "T" line, no matter T line is clear or vague.
- Negative (-): Only clear C line appear. No T line.
- Invalid: No colored line appears in C zone. No matter if T line appears.

✧ PRECAUTIONS

- All reagents must be at room temperature before running the assay.
- Do not remove test cassette from its pouch until immediately before use.
- Do not use the test beyond its expiration date.
- The components in this kit have been quality control tested as standard batch unit. Do not mix components from different lot numbers.

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- All specimens are of potential infection. It must be strictly treated according to the rules and regulations by local states.

✧ **LIMITATION**

The Canine Asian Tick-4 Combo Test is designed for in vitro veterinary diagnosis use only. All result should be considered with other clinical information available with veterinarian. It is suggested to apply a further confirmative method such as PCR when positive result was observed.



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