

# Ehrlichia-Lyme-Anaplasma-Heartworm Combo Test (TBD-4)

Catalog No.: JCA037D

## ✧ INTENDED USE

The Ehrlichia – Lyme - Anaplasma - Heartworm Combo Test (TBD-4) is a test cassette to diagnose the presence of tick-borne diseases antibodies against *Ehrlichia canis*, *Ehrlichia ewingii*, *Borrelia burgdorferi*, *Anaplasma phagocytophilum* and *Anaplasma platys*, and *Dirofilaria immitis* in dog's serum or plasma specimen.

Assay Time: 5-10 minutes

Specimen: Serum, plasma or whole blood

## ✧ PRINCIPLE

The Ehrlichia – Lyme - Anaplasma - Heartworm Combo Test is based on sandwich lateral flow immunochromatographic assay.

## ✧ REAGENTS AND MATERIALS

- Test devices
- Assay buffer for EHR-LYM-ANA (Ehrlichia, lyme, anaplasma)
- Assay buffer for CHW (Heartworm)
- 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.

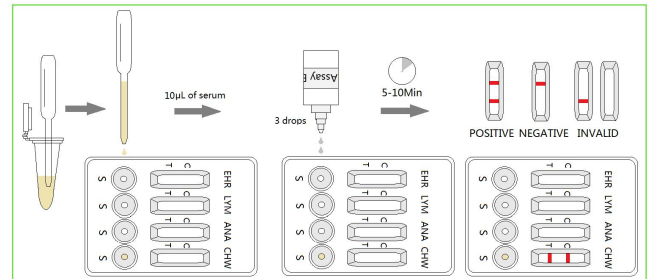
## ✧ SPECIMEN PREPARATION AND STORAGE

- 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.

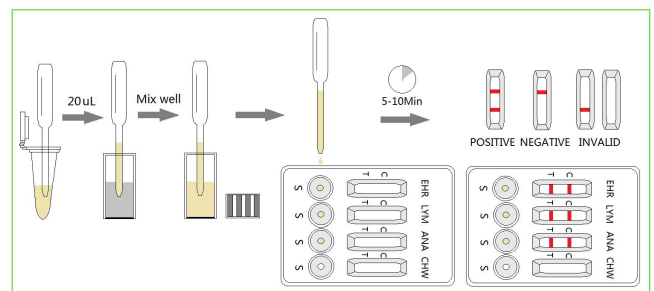
## ✧ TEST PROCEDURE

- 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.
- Place 10 µL of the prepared specimen into the sample

hole, matching the window CHW. Then drop 3 drops (approx. 100 µL) of assay buffer CHW into the sample hole. Start the timer.



- Collect 20 µL of the prepared specimen into a vial of EHR-LYM-ANA assay buffer and mix well. Then drop 3 drops (approx. 120 µL) of the diluted sample into the sample hole "S" of the test card.
- 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.
- All specimens are of potential infection. It must be strictly treated according to the rules and regulations by

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local states.

## ✧ **LIMITATION**

The Ehrlichia – Lyme - Anaplasma - Heartworm Combo Test is 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 microscopy when positive result was observed.



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