Healvet®

Canine Cardiac Troponin I (ccTnI) Rapid Quantitative Test

INTENDED USE

The Healvet™ Canine Cardiac Troponin I Rapid Quantitative Test is a fluorescence immunoassay used with Healvet™ FIA 3000 for the quantitative determination of ccTnI concentration in canine serum or plasma. This test is mainly used for the diagnosis of cardiomyocyte injury.

For *in vitro* diagnostic use only. For professional use only.

TEST PRINCIPLE

1.This test employs a quantitative double antibody sandwich fluorescence immunoassay technique.

2.The fluorescent signal intensity reflects the amount of ccTnI captured and is processed in Healvet™ FIA 3000. The ccTnI concentration is expressed in ng/mL

WARNINGS AND PRECAUTIONS

1.This kit is for in vitro diagnostic use only.

2.Lot Number of all the test components (test device, ID chip and buffer) must match each other. Do not mix components from different kit lots.

3.Inspect the packaging and labels before use. Do not use if the pouch is broken, torn or not well sealed, or the vial looks damaged or leaked.

4.Carefully follow the instructions and procedures described in this insert.

5.Do not use the test device beyond the expiration date. The test device must remain in its original sealed pouch until ready to use. Do not use if the pouch or the device itself is damaged, torn or not fully sealed.

6.A buffer tube should be used for processing one sample only.

7.The operation shall be conducted away from vibration and magnetic field. Healvet™ FIA 3000 may generate minute vibration during use, which should be regarded as normal.

8.One pipette tip should be used for one specimen only.

9.Do not touch the test area of the test device

10.All specimens and used test materials are considered as potentially infectious. The used pipette tips, buffer tubes, test devices and specimens must be handled carefully and disposed of in accordance with local regulations and procedures.

11. Recommend the use of serum or plasma. Maybe there are some interfering substances in whole blood, which may affect the accuracy of test results.

12. Please do not use the serum separator tube for testing，which may affect the accuracy of test results.

MATERIAL

Material Provided

Each box contains:

1.10 individual sealed pouches, each containing:

■ a test Device

■ a desiccant pouch

■Pipette Tips

2.One Test Device ID Chip

3.Instructions for Use

4.10 tubes of buffer

Material Required But Not Provided

1.Healvet™ FIA 3000

2.Transfer Pipette

3.Timer

4.Centrifuge

STORAGE AND STABILITY

1. Store the test kit at 4~30°C up to the expiration date.

2. .Once the pouch has been opened, the test should be performed within an hour.

3.If removed from refrigerator, allow the test for 30 minutes to attain room temperature before testing.

SPECIMEN COLLECTION AND PREPARATION

The test can be performed with either serum or plasma (Recommend the use of serum or plasma, Maybe there are some interfering substances in whole blood, which may affect the accuracy of test results).

For Plasma or Serum:

1.Following standard phlebotomy venipuncture procedure, collect whole blood specimen using a blood collection tube. If collecting plasma use a blood collection tube containing suitable anticoagulant (EDTA recommended). If serum sample will be used,use a vessel without anticoagulant (do not use the serum separator tube).

2.Separate serum or plasma from blood within 2 hours after blood collection. If a specimen appears to be severely hemolyzed, another specimen should be obtained and tested.

3.Optimally, the test should be performed immediately after the specimen collection. If the test cannot be performed within 2 hour after blood collection, store the specimen at 2°C~8°C for no longer than 48 hours. For long-term storage, specimens shall be kept below -20°C.

Bring all materials to room temperature before use. Frozen specimens must be completely thawed and mixed well prior to testing. Specimens should not be frozen and thawed repeatedly. Only clear, non-hemolyzed specimens can be used.

TEST PROCEDURE

Refer to Healvet™ FIA 3000 Operation Manual for complete instructions for use of the Test device.

1.Set a Test Device on a clean, level horizontal place.

2.Make sure that the Test Device lot No. matches with ID Chip No. Insert ID Chip into the meter. Be aware not to touch the insertion tip of the ID chip.

3.Pipette 75µl of prepared sample into the buffer, gently mix well. Vigorous agitation and foaming should be avoided.

4.Pipette 75µl of mixed sample to add into the sample of the test device. Avoid forming bubbles.

5.Please refer to the Section V Operation in Operation Manual for details.

a) Quick Test mode: start the timer right after adding the sample mixture to the sample well. Leave the Test Device at room temperature for 15 minutes. Then insert test device immediately onto the holder of the meter and click Test. The instrument will scan the Test Device automatically and show the test result.

b) Standard Test mode: insert the Test Device into the device holder of the Meter right after adding the sample to the sample well, click Test. The meter will start to countdown and read the test result automatically.

6.Results are displayed on the main screen or be printed by click Print.

INTERPRETATION OF RESULTS

1.The Healvet™ FIA 3000 calculates ccTnI test results automatically and displays the concentration of ccTnI on the screen right after correctly adding the sample to the sample well for 15 minutes. For further information, refer to the Operation Manual for the Healvet™ FIA 3000.

2.Healvet™ FIA 3000 will prompt "Abnormal C-line" when insufficient sample volume or liquid is not fully crawled across the test line, then recommends adding sample again.

QUALITY CONTROL

Each Healvet™ ccTnI Rapid Quantitative Test contains an internal control for routine quality control requirements. This internal quality control is performed each time a patient sample is tested, If an invalid result from the internal control occurs, the meter will display an error message, indicating that another test should be conducted.

LIMITATIONS OF PROCEDURE

1.This test is developed for testing canine serum or plasma specimen.

2.The results of Healvet™ cTnI Rapid Quantitative Test should be evaluated with all clinical and laboratory data available. If test results do not agree with the clinical evaluation, additional tests should be performed accordingly.

3.The false positive results include cross-reactions with some components of blood from individual to antibodies; and non-specific adhesion of some components in canine blood that have similar epitopes to capture and detector antibodies. In the case of false negative results, the most common factors are: non-responsiveness of antigen to the antibodies by that certain unknown components are masking its epitope, such that antigen cannot be seen by the antibodies; instability of ccTnI antigen, resulting in degradation with time and, or temperature, such that they become no longer recognizable by antibodies; and degraded other test components. The performance of the test is highly sensitive to the storage and handling conditions of kits and sample specimens at optimal conditions.

4.There is the possibility that factors such as technical or procedural errors, as well as additional substances in blood specimens that are not listed in the Cross-Reactivity section, may interfere the test and cause erroneous results.

INTERPRETATION

Reference range of ccTnI in canine blood:

Detection range : 0.01-20ng/mL

Reference Range:

Reference	ng/mL
Normal	<0.03
Suspicion of myocardial injury	0.03 – 0.12
High risk of myocardial injury	>0.12

Each Laboratory should establish a reference range that is representative of the population to be evaluated. The diagnosis must be made in conjunction with other clinical symptoms and tests.

MANUFACTURED BY

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