

Instructions for Use

Version: 1.0.1
Revision date: 9-Sep-24

Cardiac Troponin I (TNNI3) Rapid Test Kit

Catalog No.: abx090725

Size: 100 tests / 400 tests / 2000 tests / 10000 tests

Storage: Store all reagents at 4-30°C. Keep dry.

Application: For qualitative detection of Cardiac Troponin I in serum and plasma.

Introduction and assay principle

Abbexa's Cardiac troponin I Rapid Test Kit is based on the sandwich gold immuno-chromatography assay (GICA) principle. Any Cardiac troponin I present in the samples combines with the colloidal gold particle-labelled anti-Cardiac troponin I antibody, and the complex diffuses to the test area. A second anti-Cardiac troponin I antibody in the test line captures the complex. When the concentration of Cardiac troponin I in the sample is more than the detection limit, there is a color change in the detection line and the result is positive. When the concentration of Cardiac troponin I in the sample solution is less than the detection limit, there is no color change in the detection line and the result is negative.

Kit Components

- Test cassettes

Material Required But Not Provided

- High-precision pipette and sterile pipette tips
- Timer

Sample preparation

- **Serum:** Samples should be collected using conventional methods and tested within 4 hours of collection, or stored between 2-8 °C for short-term storage (up to 5 days) or -20 °C for long-term storage (up to 3 months). Fresh samples are recommended. Avoid repeated freeze/thaw cycles, bacterial pollution, visible particles; and avoid cloudy, hemolytic, or viscous samples.
- **Plasma:** Samples should be collected using conventional methods and tested within 4 hours of collection, or stored between 2-8 °C for short-term storage (up to 5 days) or -20 °C for long-term storage (up to 3 months). EDTA or heparin should be used for anticoagulant. Fresh samples are recommended. Avoid repeated freeze/thaw cycles, bacterial pollution, visible particles; and avoid cloudy, hemolytic, or viscous samples.

Assay procedure

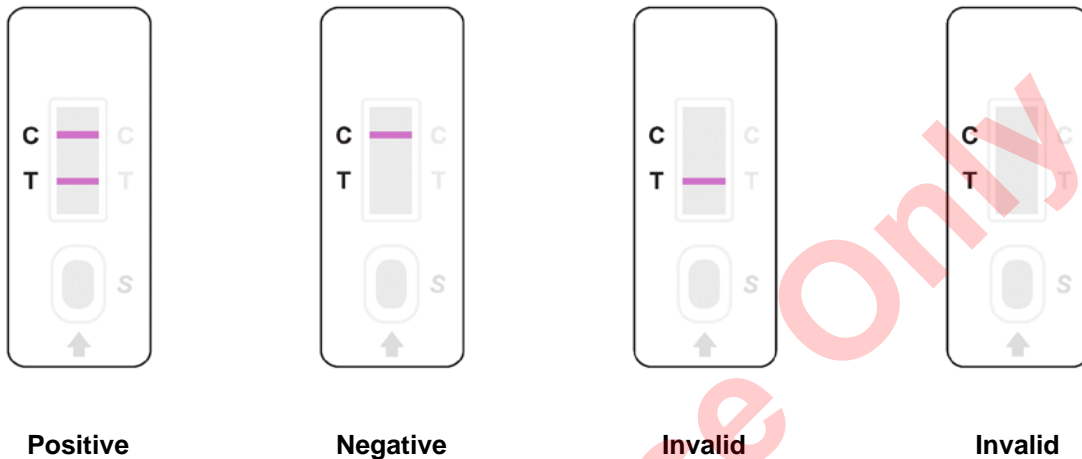
1. Take a test cassette and lay it flat on a clean table. Add 120 µl of sample to the sample well on the test cassette. Avoid foaming.
2. Leave at room temperature for 10 minutes, then analyze the result. Results must be analyzed within 30 minutes.

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Results analysis

- **Positive result:** A colored line is observed in both the control (C) section and the test (T) section.
- **Negative result:** A colored line is observed in the control (C) section but not the test (T) section.
- **Invalid result:** No colored line is observed in the control (C) section.



Notes

1. The test cassettes should be brought to room temperature before use.
2. After opening the aluminum foil, use the test cassette as soon as possible.
3. Samples should be clear with no visible particles, turbidity or bacterial pollution.
4. Use clean pipette tips for each test to avoid cross-contamination.
5. Do not use water, PBS, or similar solutions as a negative control.
6. Avoid touching the cassette membrane through the sample well or test result window.
7. This kit is for qualitative detection of Cardiac troponin I in serum and plasma samples. For other sample types, a preliminary experiment is recommended to determine compatibility with this kit. Positive samples can be tested with another method (e.g. HPLC, LC/MS) for quantitative results.
8. Sensitivity: The minimum Cardiac troponin I concentration which provides a positive result is 1 ng/ml.
9. Results may be affected by hemoglobin (5 g/L), triglyceride (25 g/L), or bilirubin (0.1 g/L) in samples.
10. This kit is for research use only and the results are for reference only.
11. All waste should be disposed of appropriately. Please note that you may need to follow special waste disposal procedures for infectious samples. Please check local disposal regulations.