

Instructions for Use

Version: 1.0.1

Revision date: 18-Jan-24

Human Hepatitis C Virus (HCV) Rapid Test Kit

Catalog No.: abx472021

Size: 50 tests

Storage: Store all reagents at 2-30°C. Keep dry. Do not freeze.

Application: For qualitative detection of Hepatitis C Virus (HCV) in human serum, plasma and whole blood.

Introduction and assay principle

Abbexa's Human Hepatitis C Virus Rapid Test Kit is based on the gold immuno-chromatography assay (GICA) principle. Any Human Hepatitis C Virus Antigen present in the samples combines with the colloidal gold particle-labelled Human Hepatitis C Virus antibody. When the concentration of Human Hepatitis C Virus 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 Human Hepatitis C Virus 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 with pipettes: 50
- Buffer: 1 vial

Material Required But Not Provided

- Timer
- Sample collection containers
- Lancets
- Capillary tubes
- Soap and water
- Paper towels

Sample preparation

- **Serum and plasma:** samples should be collected using conventional methods and stored between 2-8 °C for short-term storage (up to 3 days) or -20 °C for long-term storage.
- **Whole blood (venipuncture):** Collect whole blood using an anticoagulant tube, then assay immediately or store between 2-8°C for up to 2 days. Do not freeze whole blood samples.
- **Whole blood (fingerstick):** Wash hands thoroughly with soap and water. Ensure fingertips are clean and dry. Using a lancet, press against the fingertip to puncture. Use a clean paper towel or similar material to wipe off the first drop of blood. Gently massage the finger from knuckle to fingertip. Touch the end of the finger to the capillary tube until it is filled to approximately 50 µl. Avoid air bubbles. Samples should be used in the assay straight away.

Fresh samples are recommended. Avoid repeated freeze/thaw cycles, bacterial pollution, visible particles; and avoid cloudy, hemolytic, or viscous samples.

Assay procedure

1. Bring all samples and kit components to room temperature before testing.
2. Take a test cassette and lay it flat on a clean table.
3. For serum or plasma samples: using the provided pipette, slowly and vertically add 1 drop of sample

Instructions for Use

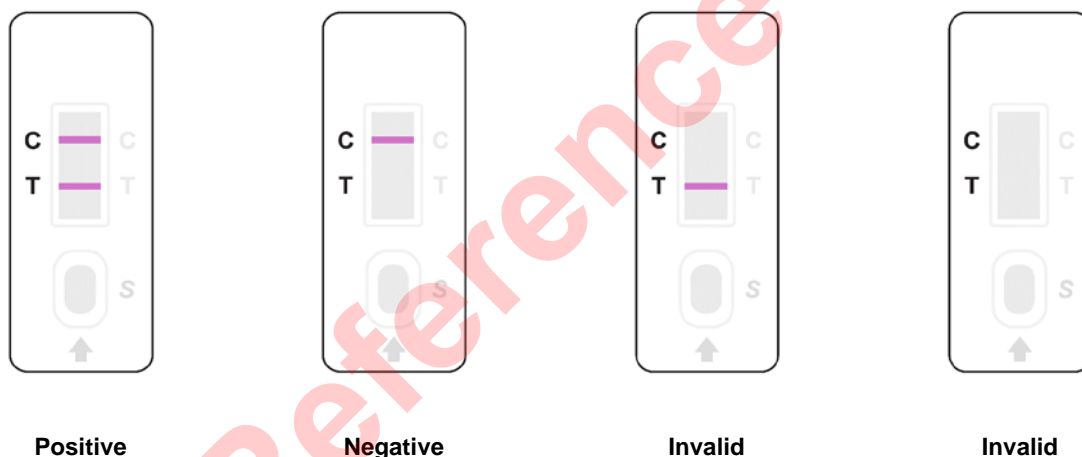
Version: 1.0.1

Revision date: 18-Jan-24

- (approximately 30 μ l) to the sample well on the test cassette. Add 1 drop of buffer (approximately 40 μ l). Start the timer.
4. For venipuncture whole blood samples: using the provided pipette, slowly and vertically add 2 drops of sample (approximately 50 μ l) to the sample well on the test cassette. Add 1 drop of buffer (approximately 40 μ l). Start the timer.
5. For fingerstick whole blood samples: using a capillary tube or from the finger, add 2 drops of sample (approximately 50 μ l) to the sample well on the cassette. Add 1 drop of buffer (approximately 40 μ l). Start the timer.
6. Leave at room temperature for 15 minutes, then analyze the result.

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. Do not mix or re-use the disposable pipettes to avoid cross-contamination.
5. Avoid touching the cassette membrane through the sample well or test result window.
6. This kit is for qualitative detection of Hepatitis C Virus (HCV) in human serum, plasma and whole blood. 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.
7. This kit is for research use only and the results are for reference only. It is recommended to use this kit in conjunction with another detection method.
8. All waste should be disposed appropriately. Please note that you may need to follow special waste disposal procedures for infectious samples. Please check local disposal regulations.