

Instructions for Use

Version: 1.0.1

Revision date: 10-May-24

Human Syphilis Antibody (Anti-TP) Rapid Test Kit

Catalog No.: abx472033

Size: 50 tests

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

Application: For qualitative detection of Syphilis Antibody in human serum, plasma and whole blood.

Introduction and assay principle

Abbexa's Human Syphilis Antibody (Anti-TP) Rapid Test Kit is based on the gold immuno-chromatography assay (GICA) principle. Any Human Syphilis antibodies present in the samples combines with the colloidal gold particle-labelled Human Syphilis antigen. When the concentration of Human Syphilis antibody 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 Syphilis antibody 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
- Buffer

Material Required But Not Provided

- Timer
- Specimen collection containers
- Lancets (for fingerstick whole blood only)
- Centrifuge (plasma only)
- Heparinized capillary tubes and dispensing bulb (for fingerstick whole blood only)
- Soap and paper towels

Sample preparation

- **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):** Ensure the skin is clean. Puncture the finger with a sterile lancet and wipe away the first drop of blood. Touch the end of the capillary tube to the blood and collect approximately 50 µl. Avoid air bubbles. Use the bulb to dispense the sample into the specimen well of the test cassette. Avoid touching the finger directly to the specimen wall. Whole blood should be anticoagulated and tested immediately or stored at 2-8 °C for up to 24 hours. Do not freeze samples.
- **Serum and plasma:** Collect samples using conventional methods and store between 2-8 °C for up to 3 days or -20 °C for long-term storage.

Fresh samples are recommended. Avoid repeated freeze/thaw cycles, bacterial pollution, visible particles; and avoid cloudy, hemolytic, or viscous samples. Bring samples to room temperature before carrying out the assay.

Assay procedure

1. Bring all kit components and samples to room temperature.

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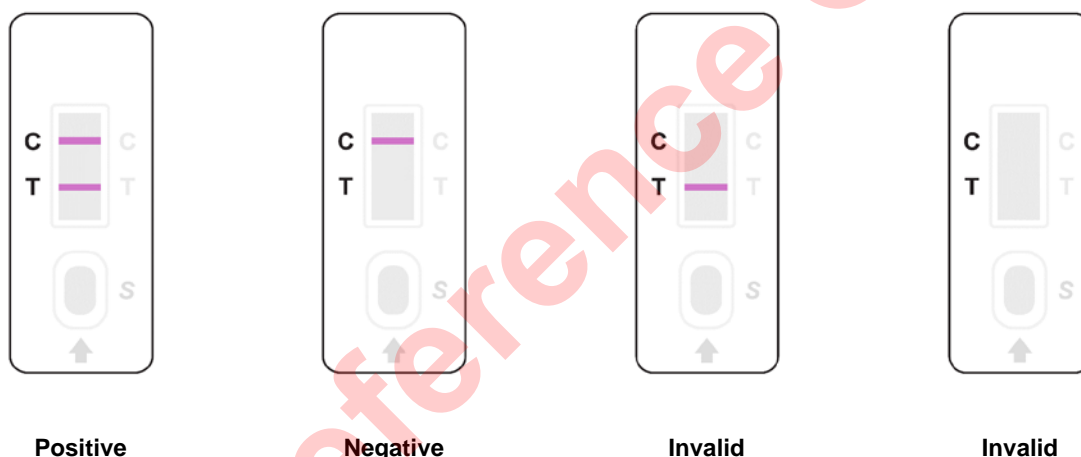
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2. Take a test cassette and lay it flat on a clean table.
 - Whole blood samples:
 - Add 2 drops (approximately 50 µl) of whole blood sample to the sample well on the test cassette.
 - Add 1 drop (approximately 40 µl) of buffer to the sample well on the test cassette. Start the timer.
 - Serum and plasma samples:
 - Add 2-3 drops (approximately 60 – 90 µl) of serum or plasma sample to the sample well on the test cassette. Start the timer.
3. Leave at room temperature for 15-30 min, 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 Syphilis Antibody 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.