

Instructions for Use

Version: 1.0.1
Revision date: 12-Mar-24

Typhoid Antigen (*S. typhi*) Rapid Test Kit

Catalog No.: abx092222

Size: 100 tests / 400 tests / 1920 tests / 10000 tests

Storage: Store all reagents at 4 °C - 30 °C

Application: For qualitative detection of Typhoid in Stool, Serum, Plasma, and Whole Blood samples.

Sensitivity: 99 %

Specificity: 98 %

Introduction and assay principle

Abbexa's Typhoid Antigen Rapid Test Kit is based on the gold immuno-chromatography assay (GICA) principle. Any Typhoid Antigen present in the samples combines with colloidal gold particle-labelled anti-Typhoid Antigen antibody in the sample well, and diffuses to the test area where the complex binds with a second anti-Typhoid Antigen antibody. When the concentration of Typhoid Antigen 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 Typhoid Antigen 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 (100 tests)

- Test cassettes: 100
- Stool samplers with 1.5 ml extraction buffer: 100
- Single-use pipettes: 100

Material Required But Not Provided

- Timer

Sample preparation

- **Stool:** Collect a stool sample in a clean, dry receptacle. Unscrew the lid of a stool sampler and use the collection stick to pierce the sample in at least 5 different sites, ensuring that sample is only collected in the grooves of the collection stick; excess stool samples may lead to inaccurate results. Return the collection stick to the vial and tighten the lid securely, then shake vigorously.
- **Serum and Plasma:** Collect samples using conventional methods and store between 2-8 °C for short-term storage (up to 5 days) or -20 °C for long-term storage. Fresh samples are recommended.
- **Whole Blood:** Collect samples by either fingertip puncture or venipuncture. Samples should be anticoagulated and tested immediately or stored at 2-8 °C for up to 24 hours.

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

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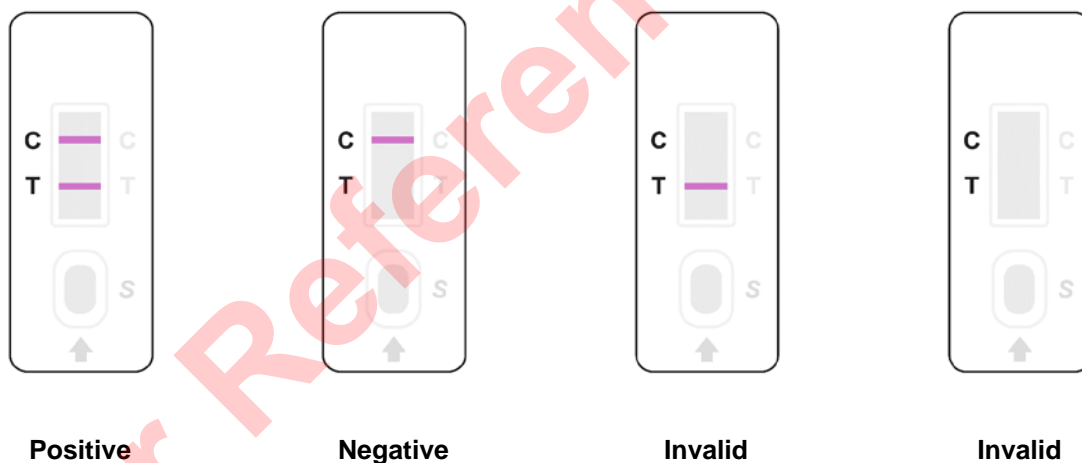
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Assay procedure

- Take a test cassette and lay it flat on a clean table, then add sample to the sample well:
 - Stool Samples:** Shake the stool sampler to homogenize the sample, then remove the cap and slowly and vertically add 2 drops (approximately 80 μ l) of sample to the sample well. Avoid foaming.
 - Serum/Plasma/Whole Blood Samples:** Using the provided pipette, slowly and vertically add 1 drop of sample (approximately 40 μ l) to the sample well on the test cassette. Avoid foaming.
- Leave at room temperature for 15 min, then analyze the result. Negative results must be confirmed at 20 minutes. Results are only valid when analyzed within 20 minutes.

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

- The test cassettes should be brought to room temperature before use.
- After opening the aluminum foil, use the test cassette as soon as possible.
- Samples should be clear with no visible particles, turbidity or bacterial pollution.
- Do not mix or re-use the disposable pipettes to avoid cross-contamination.
- Do not use water, PBS, or similar solutions as the negative control.
- Avoid touching the cassette membrane through the sample well or test result window.
- This kit is for qualitative detection of Typhoid Antigen in stool, serum, plasma, and whole blood samples. For other sample types, a preliminary experiment is recommended to determine compatibility.

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- with this kit. Positive samples can be tested with another method (e.g. HPLC, LC/MS) for quantitative results.
8. 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.
 9. This kit shows no cross-reactivity with positive serum samples (n = 10) for HBsAg, HAV, HCV, Syphilis, TB, and *H. pylori* antigens.
 10. 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.

For Reference Only