

## Instructions for Use

Version: 2.0.1  
Revision date: 30-Jul-25

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

**Catalog No.:** abx092222

**Size:** 400 tests / 2000 tests / 10000 tests

**Storage:** Store all reagents at 4–30°C

**Application:** For qualitative detection of Typhoid in Human serum, plasma, whole blood and stool samples.

#### 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

- Test Cassettes with Pipettes
- Stool Samplers containing 1.5 ml Extraction Buffer
- Desiccant

#### Material Required But Not Provided

- Timer

#### Sample preparation

- **Stool:** Collect a stool sample in a clean, dry container. 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.

#### Assay procedure

1. 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

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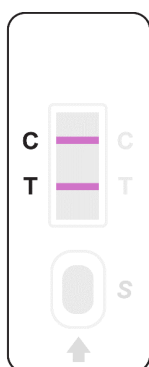
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and slowly and vertically add 2 drops (approximately 70–90 µl) of sample to the sample well. Avoid foaming.

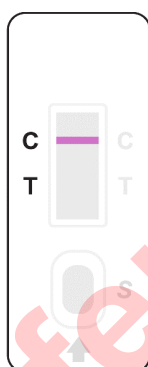
- **Serum/Plasma/Whole Blood Samples:** Using the provided Pipette, slowly and vertically add 1 drop (approximately 30–45 µl) of serum/plasma or 1 drop (approximately 40–50 µl) to the sample well on the test cassette. Avoid foaming. Immediately add 1 drop (approximately 30–45 µl) of Extraction Buffer.
2. Leave at room temperature for 15 minutes, then analyze the result. Negative results must be confirmed at the end of 20 minutes. Results are only valid when analyzed within 20 minutes.

### Results analysis

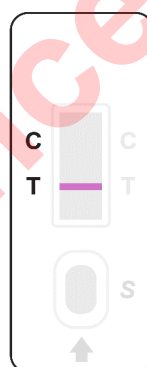
- **Positive result:** A colored line is observed in both the control (C) section and the test (T) section.
- **Negative result:** A colored line is observed in the control (C) section but not the test (T) section.
- **Invalid result:** No colored line is observed in the control (C) section.



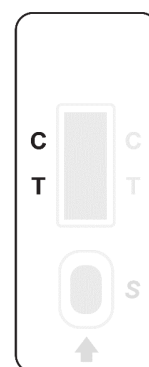
**Positive**



**Negative**



**Invalid**



**Invalid**

### 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. Do not mix or re-use the disposable pipettes to avoid cross-contamination.
4. Do not use water, PBS, or similar solutions as the negative control.
5. Avoid touching the Cassette membrane through the sample well or test result window.
6. 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 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.

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8. This kit shows no cross-reactivity with positive serum samples (n = 10) for HBsAg, HAV, HCV, Syphilis, TB, and H. pylori antigens.
9. 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.

**Technical Support**

For troubleshooting and technical assistance, please contact us at [support@abbexa.com](mailto:support@abbexa.com).

For Reference Only