

Instructions for Use

Version: 1.0.1
Revision date: 11-Nov-24

Human Chorionic Gonadotropin (hCG) Rapid Test Kit

Catalog No.: abx092203

Size: 100 tests / 400 tests / 2000 tests / 10,000 tests

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

Application: For qualitative detection of Human Chorionic Gonadotropin (hCG) in serum, plasma, whole blood, and urine samples.

Introduction and Assay Principle

Abbexa's Human Chorionic Gonadotropin (hCG) Rapid Test Kit is based on the gold immuno-chromatography assay (GICA) principle. Any Human Chorionic Gonadotropin (hCG) present in the samples combines with the colloidal gold particle-labelled Human Chorionic Gonadotropin (hCG) antibody in the sample well, and the complex moves to the test area. When the concentration of Human Chorionic Gonadotropin (hCG) 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 Chorionic Gonadotropin (hCG) 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
- Whole blood buffer

Material Required But Not Provided

- Timer

A. Sample preparation

- **Serum and Plasma:** Serum and plasma samples should be collected using conventional methods and stored between 2 – 8°C for short-term storage (up to 5 days) or -20 °C for long-term storage. After blood collection, serum and plasma should be immediately separated for analysis. EDTA or heparin anticoagulant can be used. Bring samples to room temperature prior to testing. Frozen serum or plasma samples must be completely thawed and thoroughly mixed well prior to testing. Samples should not be frozen and thawed repeatedly.
- **Whole blood:** Whole blood should be anticoagulated and tested immediately or stored at 2 – 8°C for up to 24 hours. 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 prior to testing.
- **Urine samples:** Urine samples should be collected using conventional methods and stored between 2 – 8°C for short-term storage (up to 2 days), and should not be frozen. Bring samples to room temperature prior to testing.

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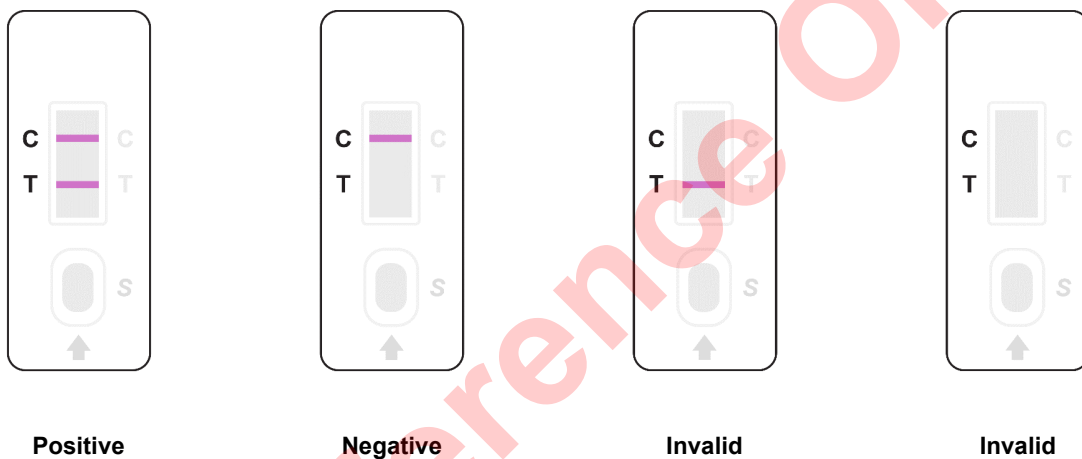
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B. Assay procedure

1. Take a test cassette and lay it flat on a clean table. Using a pipette, slowly and vertically add 100 µl of serum, plasma, urine sample, or whole blood sample to the sample well on the test cassette. For whole blood samples, also add 1 ml of whole blood buffer. Avoid foaming.
2. Leave at room temperature for 5 – 10 minutes, then analyze the result. Results must be read within 15 minutes.

C. 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. Do not use water, PBS, or similar solutions as the negative control.
6. Avoid touching the cassette membrane through the sample well or test result window.
7. This kit is for qualitative detection of Human Chorionic Gonadotropin (hCG) in serum, plasma, whole blood, and urine 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. This kit is for research use only and the results are for reference only.
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.

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Technical Support

For troubleshooting and technical assistance, please contact us at support@abbexa.com.

For Reference Only