

Instructions for Use

Version: 1.0.3
Revision date: 11-Sep-23

Luteinizing Hormone Rapid Test Kit

Catalog No.: abx092209

Size: 20 / 40 tests

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

Application: For qualitative detection of Human Luteinizing Hormone in human serum, plasma, whole blood and urine

Introduction and assay principle

Luteinizing Hormone Rapid Test Kit is based on the gold immuno-chromatography assay (GICA) principle. Any Human Luteinizing Hormone Antigen present in the samples combines with the colloidal gold particle-labelled Human Luteinizing Hormone Antibody. When the concentration of Human Luteinizing Hormone 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 Human Luteinizing Hormone 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: 20 / 40
- Pipettes: 20 / 40

Material Required But Not Provided

- Timer
- Urine container

Sample preparation

- **Serum and plasma:** Samples should be collected using conventional methods and stored between 2-8 °C for short-term storage (up to 1 week) or -20 °C for long-term storage. 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.
- **Urine:** Collect fresh urine samples with disposable clean containers. If the sample is visibly turbid, centrifuge, filter, or precipitate the supernatant for detection. Urine samples should be tested within 4 hours of collection, or stored between 2-8°C for up to 2 days. Do not freeze urine samples.

Assay procedure

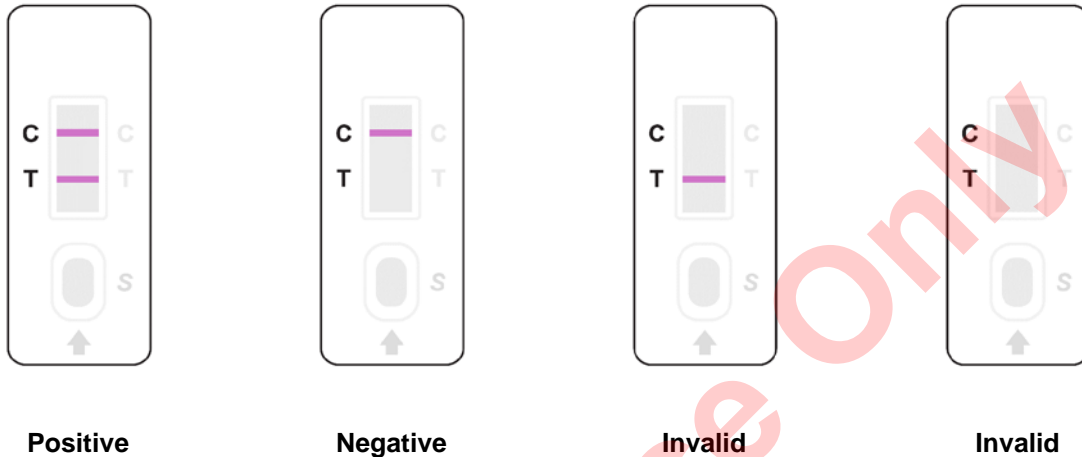
1. Take a test cassette and lay it flat on a clean table. Using a pipette, slowly and vertically add 2-3 drops (approximately 80-100 µl) of sample to the sample well on the test cassette. Avoid foaming.
2. Leave at room temperature for 5 minutes, then analyze the result. The result is invalid if read after 20 minutes.

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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 and samples 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. False negative results can be caused by several factors, such as: components in the sample blocking the antigen epitope, preventing the antigen from binding to the antibody; sample degradation; analyte concentration is lower than the detection limit of the kit.
7. This kit is for qualitative detection of Human Luteinizing Hormone in serum, plasma, whole blood and urine. For other sample types, a preliminary experiment is recommended to determine compatibility with this kit.
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. 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.