

Instructions for Use

Version: 1.0.1

Revision date: 7-Aug-25

Ethyl Glucuronide (ETG) Rapid Test Kit

Catalog No.: abx092239

Size: 100 / 400 / 2,000 / 10,000 tests

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

Application: For qualitative detection of Ethyl Glucuronide in Human urine.

Introduction and Assay Principle

Abbexa's Ethyl Glucuronide (ETG) Rapid Test Kit is based on the gold immuno-chromatography assay (GICA) principle. Any ETG present in the samples combines with the colloidal gold particle-labelled ETG antibody, preventing the ETG antibody from binding to the ETG conjugate at the detection line. When the concentration of ETG in the sample is more than the detection limit, there is no color change in the detection line and the result is positive. When the concentration of ETG in the sample solution is less than the detection limit, there is a color change in the detection line and the result is negative.

Kit Components

- Test cassettes with pipettes

Material Required But Not Provided

- Timer

A. Sample preparation

- **Urine:** Urine samples should be collected using conventional methods and stored between 2 – 4°C for short term storage (up to 2 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.

B. Assay procedure

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

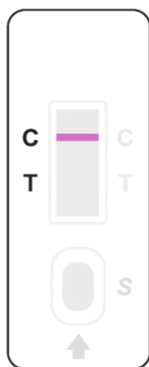
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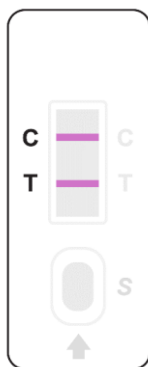
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C. Results analysis

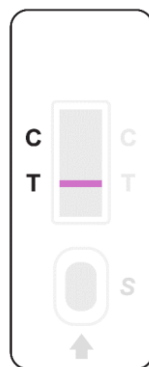
- **Positive result:** A colored line is observed in the control (C) section but not the test (T) section.
- **Negative result:** A colored line is observed in both the control (C) section and the test (T) section.
- **Invalid result:** No colored line is observed in the control (C) section.



Positive



Negative



Invalid



Invalid

Notes

1. The test cassettes and urine samples should be brought to room temperature before carrying out the test.
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 ETG in Human 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. Adulteration of urine samples may cause erroneous results. If adulteration is suspected, collect another sample.
9. This kit is for research use only and the results are for reference only.
10. 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.
11. Do not interpret results after 10 minutes.

Technical Support

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