

## Instructions for Use

Version: 1.0.3  
Revision date: 3-Aug-23

### Caffeine Rapid Test Kit

**Catalog No.:** abx092240

**Size:** 20 tests / 40 tests

**Storage:** Store all reagents at 2-30°C. Keep dry.

**Application:** For qualitative detection of Caffeine in urine.

#### Introduction and assay principle

Abbexa's Caffeine Rapid Test Kit is based on the competitive gold immuno-chromatography assay (GICA) principle. Any Caffeine present in the samples competes with colloidal gold particle-labelled Caffeine to bind with antibody. When the concentration of Caffeine 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 Caffeine 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 (20 tests)

- Test cassettes: 20
- Pipettes: 20

#### Kit Components (40 tests)

- Test cassettes: 40
- Pipettes: 40

#### Material Required But Not Provided

- High-precision pipette and sterile pipette tips
- Timer

#### Sample preparation

- **Urine:** Collect a urine sample into a dry sterile container. Fresh samples are recommended. Avoid repeated freeze/thaw cycles, bacterial pollution, visible particles; and avoid cloudy, hemolytic, or viscous samples. Urine samples should be tested immediately or stored at 2-8 °C for up to 48 hours.

#### Assay procedure

*Bring all kit components and samples to room temperature prior to assay. The test cassette should be used within 1 hour after removing from the sealed pouch.*

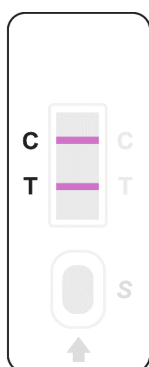
1. Take a test cassette and lay it flat on a clean table. Using the provided pipette, slowly and vertically add 3 drops (approximately 100 µl) of urine sample to the sample well on the test cassette. Avoid foaming.
2. Leave at room temperature for 5-10 min, then analyze the result. The result is invalid if read after 10 minutes.

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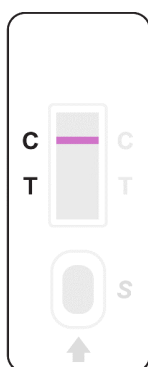
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### Results analysis

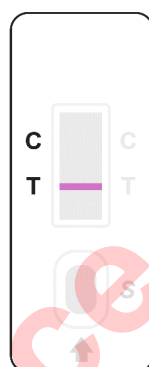
- **Negative result:** A colored line is observed in both the control (C) section and the test (T) section. Even a faint colored line in the test (T) section should be considered negative. A negative result suggests that the concentration of caffeine is below the cut-off (1000 ng/ml).
- **Positive result:** A colored line is observed in the control (C) section but not the test (T) section. A positive result suggests that the concentration of caffeine is above the cut-off (1000 ng/ml).
- **Invalid result:** No colored line is observed in the control (C) section.



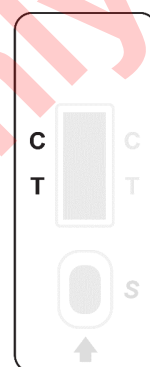
**Negative**



**Positive**



**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. 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. This kit is for qualitative detection of Caffeine in 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.
7. This kit is for research use only and the results are for reference only.
8. 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.
10. Limit of detection: 1000 ng/ml.