

Instructions for Use

Version: 1.0.1

Revision date: 30-Jul-25

Tramadol (TML) Rapid Test Kit

Catalog No.: abx092221

Size: 100 tests / 400 tests / 2000 tests / 10000 tests

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

Application: For qualitative detection of Tramadol (TML) in Human urine samples.

Detection limit: 100 ng/ml

Introduction and Assay Principle

Abbexa's Tramadol (TML) Rapid Test Kit is a qualitative lateral flow immunochromatographic assay for the detection of Tramadol (TML) in Human urine samples. The cassette contains a colloidal gold conjugated antibody against Tramadol (TML), which combines with any Tramadol (TML) present in the samples, preventing the antibody binding with the Tramadol (TML) coated on the test region of the cassette. The test (T) line will not show or will be fainter than the control (C) line if the concentration of Tramadol (TML) in the sample is higher than the detection limit. This indicates a positive test. A colored band develops in the test region if the concentration of Tramadol (TML) in the sample is lower than the detection limit, which indicates a negative test. The presence of a line in the control (C) region confirms if the test has been successful.

Kit Components

- Test Cassettes with Pipettes
- Desiccant

Material Required But Not Provided

- Specimen collection container
- Timer
- Centrifuge and centrifuge tubes

A. Sample requirements

Urine:

- Collect a fresh sample in a clean, dry container.
- Samples should be clear, any containing visible particles should be centrifuged before testing.
- Store the sample at 2–8°C for up to 48 hours or at -20°C for long term storage. Ensure frozen samples are thawed and mixed well before testing.

B. Assay procedure

1. Remove a Test Cassette from its sealed pouch and use within 1 hour.
2. Lay it flat on a clean table. Using the provided Pipette, slowly and vertically add 2–3 drops (approximately 80-100 µl) of sample to the sample well on the Test Cassette. Avoid foaming.

Instructions for Use

Version: 1.0.1

Revision date: 30-Jul-25

- Leave at room temperature for 5 minutes, then analyze the result. Do not interpret the result after 10 minutes.

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.



Notes

- The Test Cassettes should be brought to room temperature before use.
- After opening the aluminum foil, use the test cassette within 1 hour.
- Samples should be clear with no visible particles, turbidity, or bacterial pollution.
- Do not mix or re-use the disposable Pipettes to avoid cross-contamination.
- Avoid touching the Cassette membrane through the sample well or test result window.
- This kit is for qualitative detection of Tramadol (TML) 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. Gas chromatography/mass spectrometry) for quantitative results.
- Bleach and aluminum in the sample can interfere with the test result.
- A negative result can't guarantee that the sample does not contain Tramadol (TML) if the concentration in the sample is lower than the detection limit.
- This kit is for research use only and the results are for reference only.
- 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.

Technical Support

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