Tetracycline (TCs) Rapid Test Kit

Catalog No.: abx092063

Size: 50 tests

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

Application: For qualitative detection of Tetracycline (TCs) in milk samples.

Detection limit: 10 ppb

Introduction and assay principle

Abbexa's Tetracycline (TCs) Rapid Test Kit is based on the gold immuno-chromatography assay (GICA) principle. Any Tetracycline (TCs) present in the samples combines with the colloidal gold particle-labelled anti-Tetracycline (TCs) antibody in the sample well. Tetracycline (TCs) in samples competes with Tetracycline (TCs) antigen in the detection line, preventing capture of the gold-labelled complex. When the concentration of Tetracycline (TCs) 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 Tetracycline (TCs) 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: 50

Material Required But Not Provided

- Homogenizer
- Water bath
- High precision pipette and sterile pipette tips

Sample preparation

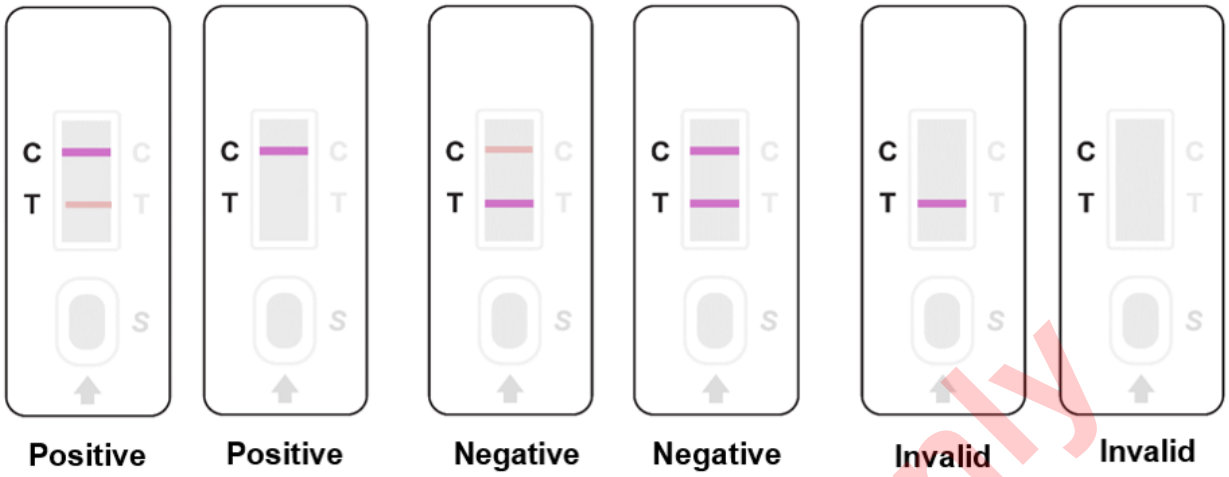
Milk: Take a fresh sample in a clean and dry centrifuge tube. Place the tube in a water bath until the temperature reaches 20°C. Prior to testing, the sample can be stored at 2–8°C for up to 24 hours.

Assay procedure

1. Take a Test Cassette and lay it flat on a clean table. Using the provided Pipette, slowly and vertically add 6 drops (approximately 150 µl) of sample to the gold-labelled micro well on the test cassette. Avoid foaming.
2. Leave at room temperature for 2 minutes, then add all of the liquid from the gold-labelled micro well to the sample well (S).
3. Leave at room temperature for 5–8 minutes, then analyze the result immediately.

Results analysis

- **Positive result**: A colored line is observed in the control (C) section. A positive result should still be considered if the test (T) line appears but is lighter than the control (C) line.
- **Negative result:** A colored line is observed in both the test (T) and control (C) sections.
- **Invalid result**: A colored line is observed in test (T) section but not the control (C) section, or no lines are observed.



Notes

1. The test cassettes should be brought to room temperature before use.
2. Samples must be greater than 20°C before testing.
3. After opening the aluminum foil, use the test cassette as soon as possible.
4. Samples should be clear with no visible particles, turbidity or bacterial pollution.
5. Do not mix or re-use the disposable pipettes to avoid cross-contamination.
6. Do not use water, PBS, or similar solutions as a negative control.
7. Avoid touching the cassette membrane through the sample well or test result window.
8. This kit is for qualitative detection of Tetracycline (TCs) 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.
9. 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.
10. 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.

Technical Support

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