

Cephapirin Rapid Test (Milk)

Cat. No.:DTS449

Pkg.Size:

Intended use

CD Cephapirin Rapid Test is a competitive immunoassay for the semi-quantitative detection of the presence of Cephapirin residue in milk.

Cut-off: 10 ppb

Assay Time: 5 - 10 min

Sample: Defatted milk

General Description

Cefapirin (INN, also spelled cephalapirin) is an injectable, first-generation cephalosporin antibiotic. It is marketed under the trade name Cefadyl. Production for use in humans has been discontinued in the United States. It also has a role in veterinary medicine as Metricure, an intrauterine preparation and combined with prednisolone in Mastiplan, an intramammary preparation. Both are licenced in cattle.

Principle Of The Test

CD Cephapirin Rapid Test is based on competitive lateral flow immunochromatographic assay. The Cephapirin conjugate in the test zone will capture the immuno-gold (colloid gold- Cephapirin antibody conjugate), when there is very little dissociative Cephapirin in the samples. A visible red test band indicates a negative result when the control line (C zone) shows that the card is valid. The test band (T zone) will be not visible if Cephapirin is present in concentration of 10 ppb and above which explains a positive result.

Reagents And Materials Provided

1. 10×foil pouches each contain one cassette and a desiccant
2. 10×centrifugal tubes (1.5 mL)
3. Product Manual

Storage

The kit can be stored at room temperature (2-30°C). The test kit is stable through the expiration date (18 months) marked on the foil pouch. **DO NOT FREEZE.** Do not store the test kit in direct sunlight.

Assay Procedure

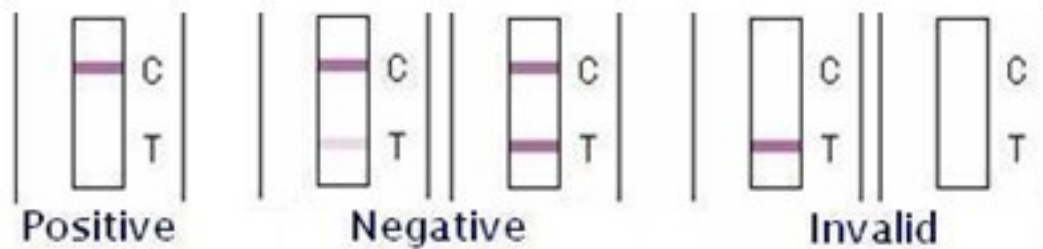
1. Bring 2-3 mL of the under tested milk to room temperature (20-30°C).
2. Collect 1mL of milk sample into a centrifugal tube. Do centrifugation at 7000 rpm for 3-4 min to separate the fat component.
3. Take out the cassette from the foil pouch and place it horizontally.
4. Insert the pipette through the fat layer (5 mm below) to collect the defatted milk and gradually drip 3 drops into the assay sample hole "S".
5. Interpret the result in 5-10 minutes. Result after 10 minutes is considered as invalid.

Interpretation of Results

Positive: Only one clear band in C zone indicates a positive result. Positive shows that the concentration of Cephapirin is at or above 10 ppb in the samples.

Negative: The presence of both clear band in C zone and T zone.

Invalid: No colored band appears in C zone.



Specificity

The results are negative when the test card is applied to detect 100 ppm of Chloramphenicol, Macrolides, Sulfonamides, Ceftiofur, Aminoglycosides, Tetracycline and Penicillin.

Precautions

1. For best results, please strictly adhere to these instructions.
2. All reagents must be at room temperature before running the assay.
3. Do not remove test cassette from its pouch until immediately before use.
4. Do not reuse the test kit.
5. Do not use the test beyond its expiration date marked on the foil pouch.
6. The components in this kit have been quality control tested as standard batch unit. Do not mix components from different lot numbers.

Limitations

CD Cephapirin Rapid Test is an useful tool offering a rapid and accurate testing in field screening, exceeding with its convenience. It provides a semi-quantitative method to detect the Cephapirin above 10 ppb in milk. If you want a quantitative result, it is suggested to apply other method such as ELISA / HPLC in practice.