

## Sulfadimethoxine Rapid Test (Milk)

Cat. No.:DTS453

Pkg.Size:

### Intended use

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

**Cut-off:** 100 ppb

**Assay Time:** 5 - 10 min

**Sample:** Defatted milk

### General Description

Sulfadimethoxine (trade name Di-Methox, Albon) is a sulfonamide antibiotic. Albon is produced by Pfizer Animal Health and is available as a oral suspension, tablet or bolus. It is used to treat many infections including treatment of respiratory, urinary tract, enteric, and soft tissue infections. It is most frequently used in veterinary medicine. Sulfadimethoxine inhibits bacterial synthesis of folic acid (pteroylglutamic acid) from para-aminobenzoic acid. It is also commonly used for the treatment of coccidiosis in many species.

### Principle Of The Test

CD Sulfadimethoxine Rapid Test is based on competitive lateral flow immunochromatographic assay. The Sulfadimethoxine conjugate in the test zone will capture the immuno-gold (colloid gold- Sulfadimethoxine antibody conjugate), when there is very little dissociative Sulfadimethoxine 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 Sulfadimethoxine is present in concentration of 100 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

### Assay Procedure

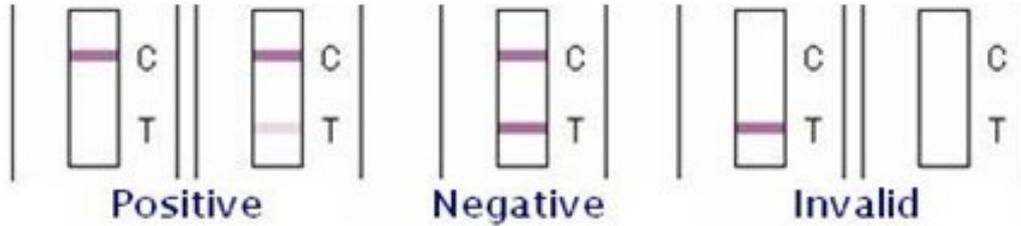
1. Bring 2-3 mL of the under tested milk to room temperature (20-30°C).
2. Collect 1mL of milk sample into a centrifugal tube. Do centrifugation at 7000 rpm for 3-4 min to separate the fat component.
3. Take out the cassette from the foil pouch and place it horizontally.
4. Insert the pipette through 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 Sulfadimethoxine is at or above 100 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, Aminoglycosides, Macrolides, Beta-lactam, Sulfamerazine and Tetracycline.

## 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 Sulfadimethoxine 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 Sulfadimethoxine above 100 ppb in milk. If you want a quantitative result, it is suggested to apply other method such as ELISA / HPLC in practice.