

## Clenbuterol Rapid Test (Tissue)

Cat. No.:DTS420

Pkg.Size:

### Intended use

CD Clenbuterol Rapid Test is a competitive immunoassay for the semi-quantitative detection of the presence of Clenbuterol residue in animal's tissue.

### General Description

Clenbuterol is a long acting beta 2 adrenergic agonist. Like other beta 2 agonists, clenbuterol is believed to act by stimulating production of cyclic AMP through the activation of adenylyl cyclase. By definition, Beta 2 agonists have more smooth muscle relaxation activity (bronchial, vascular and uterine smooth muscle) versus its cardiac effects (Beta 1).

### Principle Of The Test

CD Clenbuterol Rapid Test is based on competitive lateral flow immunochromatographic assay. The CLEN-conjugate in the test zone will capture the immuno-gold (colloid gold-CLEN antibody conjugate), when there is very little dissociative CLEN 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 CLEN is present in concentration of 5 ppb and above which explains a positive result.

### Reagents And Materials Provided

10×foil pouches each containing one cassette with one pipette and a desiccant  
1×assay buffer (8 mL)  
12×centrifugal tubes (2×, 15 mL; 10×, 1.5 mL)  
2×graduated pipettes (3 mL )  
Products 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. Collect tissue as sample. Get rid of the fat tissue. Homogenize the sample at 10000 rpm for 1 min. Weigh out 4.0 g of sample into a 15 mL centrifugal tube. Add 0.5 mL of assay diluent and tightly cover the lid.
2. Put the tube into a water bath (80°C ) for 10 min. Take out as much the extracted liquid into a 1.5 mL centrifugal tube.
3. Do centrifugation at 4000 rpm for 1 min to make the extract clear. NOTE: If there is fat layer, just insert the pipette through the fat layer and take the water phase liquid for running the assay.
4. Take out the cassette from the foil pouch and place it horizontally.
5. Gradually drip 4 drops of sample extraction into the sample hole "S".
6. Interpret the result in 5 - 10 min. Result after 10 min 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 Clenbuterol is at or above 5 ppb in the sample.

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

Invalid: No colored band appears in C zone.

## Detection Limit

5 ppb

## Specificity

The results are negative when the test is applied to detect 100 ppm of Ractopamine, Trenbolone-acetate, Chloramphenicol, Aminoglycosides, Beta-Lactams, Macrolides, Quinolones, and Sulfonamides.

The results is negative when the test is applied to detect 1 ppm of Salbutamol.

## Precautions

For best results, please strictly adhere to these instructions.

All reagents must be at room temperature before running the assay.

Do not remove test cassette from its pouch until immediately before use.

Do not reuse the test kit.

Do not use the test beyond its expiration date marked on the foil pouch.

The components in this kit have been quality control tested as standard batch unit. Do not mix components from different lot numbers.

## Limitations

CD Clenbuterol Rapid Test is a useful tool offering a rapid and accurate testing in field screening, exceeding with its convenience. It provides a semi-quantitative method to detect the Clenbuterol above 5 ppb in meat. If you want a quantitative result, please adopt other method such as ELISA in practice.