

Clenbuterol Rapid Test (Urine)

Cat. No.:DTS440

Pkg.Size:

Intended use

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

Cut-off: 3 ppb

Assay Time: 5 -10 min

General Description

Clenbuterol, marketed as Spiropent and Ventipulmin, is a sympathomimetic amine used by sufferers of breathing disorders as a decongestant and bronchodilator. People with chronic breathing disorders such as asthma use this as a bronchodilator to make breathing easier. It is most commonly available as the hydrochloride salt, clenbuterol hydrochloride.

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 3 ppb and above which explains a positive result.

Reagents And Materials Provided

1. 10×foil pouches each containing one cassette, one pipette and a desiccant
2. 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

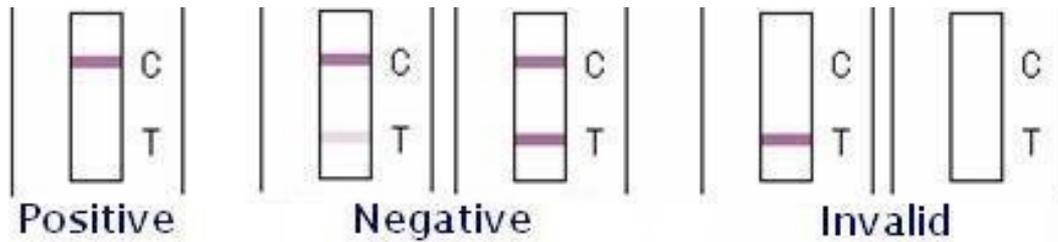
1. Collect clean urine directly for running the assay. If the sample is cloudy, do a centrifugation to make the urine clean for use.
2. Take out the cassette from the foil pouch and place it horizontally.
3. Gradually drip 3 drops of sample extraction into the sample hole "S".
4. Interpret the result 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 Clenbuterol is at or above 3 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.



Specificity

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

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 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 3 ppb in urine. If you want a quantitative result, please adopt other method such as ELISA in practice.

REFERENCES

1. Guest, Katy (2007-04-10). "Clenbuterol: The new weight-loss wonder drug gripping Planet Zero". The Independent (London). Retrieved 2007-04-10.
2. Macur, Juliet (29 September 2010). "With Positive Test, Contador May Lose Tour Title". The New York Times. Retrieved 29 September 2010.
3. Dittmeier, Bobbie (May 7, 2012). "Mota suspended 100 games for positive test". MLB.com. Major League Baseball. Retrieved May 7, 2012.