



## *AccuDip*<sup>TM</sup> Clenbuterol Test Strip for Urine Sample User Guide

(Product No. AAF-11111)

### **General Description**

Clenbuterol, often referred to as “clen”, is a potent beta-2 agonist that can stimulate beta-2 receptors in mammals, which in turn leads to fat loss by allowing the body to release and burn more stored fat. It has been used as a performance-enhancing drug by athletes and body builders (now banned by IOC), and has been illegally used for decades in the veterinary world to increase the lean yield of livestock.

Clenbuterol can cause a multitude of adverse effects upon entering human body, such as dizziness, nausea, diarrhea, agitations, muscle cramps, hypertension, and even acute myocardial infarction (heart attack). Therefore, it has been banned in many countries to be used on food-producing animals.

The AccuDip<sup>TM</sup> Clenbuterol test strip provides a convenient test to screen urine samples. It allows for **fast** (result shown in 5 minutes), **simple** (direct analysis for urine sample without pretreatment or dilution), **sensitive** and **reliable** detection of Clenbuterol in urine at 3 ppb sensitivity. If necessary, samples requiring regulatory action can be confirmed by HPLC, GC/MS, or other conventional methods.

### **Intended Use**

The AccuDip<sup>TM</sup> Clenbuterol test strip is a competitive lateral flow strip test for the qualitative analysis of Clenbuterol in urine. The sensitivity of test is 3 ppb (3 ng/ml).

### **Safety Instructions**

To receive complete safety information on this product, contact AccuAffinity, Inc. and request Material Safety Data Sheet.



## **Assay Principles**

AccuDip™ Clenbuterol test strip is based on a competitive immunoassay principle. An anti-Clenbuterol monoclonal antibody is conjugated to colloidal gold and placed on conjugate pad. Colloidal gold provides red color to visualize antibody-antigen binding. Clenbuterol-protein conjugate is immobilized on nitrocellulose membrane. Test sample is loaded onto sample pad, and will subsequently mix with gold-antibody conjugate and migrate along the membrane. If the sample contains no Clenbuterol or Clenbuterol amount lower than detection limit, antibody conjugated to colloidal gold will bind Clenbuterol immobilized on membrane and present a red colored band on detection line on membrane. If Clenbuterol concentration is higher than detection limit in test sample, it will compete with immobilized Clenbuterol on binding to the antibody, preventing the red test line from showing up. A non-specific protein is immobilized on membrane in a separate line (control line) to ensure the validity of each strip test.

## **Reagents and Materials in each pack**

- a) 1 strip of Clenbuterol test
- b) 1 disposable transfer pipette

## **Test Procedure**

- Equilibrate test strip at room temperature (20-25°C)
- Equilibrate test sample at room temperature (20-25°C)
  1. Use disposable transfer pipette to take milk sample
  2. Add 3 drops to sample loading well
  3. After loading, read result at 5-10 minutes



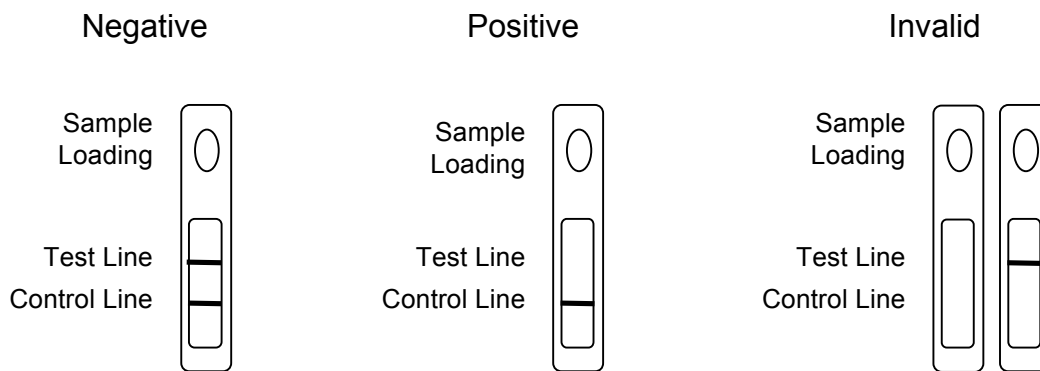
## Result Interpretation

Test result is interpreted by observing test line and control line shown in result window.

Negative: test line and control line present

Positive: no test line, control line present

Invalid test: no control line present



## Precautions

1. Test strip should be stored at room temperature (20-25°C) and avoid freezing conditions
2. Test strip is for one time use
3. Test is performed at room temperature, strip should be equilibrated to room temperature before use
4. After open package, use the strip on the same day
5. Test samples should be equilibrated to room temperature before being loaded to strip

## Storage and Expiration Date

Storage: room temperature (20-25°C).

Expiration Date: 12 months after manufacturing date.



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### **Technical Assistance**

For ordering or technical assistance regarding this product, or for additional information about AccuAffinity products, please email [support@accuaffinity.com](mailto:support@accuaffinity.com) or call (408) 368-1364.

### **General Limited Warranty**

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