



AccuDip[™] Ractopamine Test Strip for Urine Sample User Guide

(Product No. AAF-11131)

General Description

Ractopamine is a potent beta agonist that can drive nutrient away from fat production and into the muscle. Therefore, it has been used as a feed additive to increase the lean yield of livestock.

Upon entering human body, Ractopamine can cause cardiovascular effects such as tachycardia, decrease in blood pressure, and occasional palpitations. Especially for patients with underlying coronary artery disease or pre-existing arrhythmias, it may cause significant arrhythmias or myocardial ischaemia. In addition, Ractopamine could lead to symptoms including skeletal muscle tremor, nervousness, metabolic disturbances. As a result, it has been banned as livestock feed additive in over 150 countries.

The AccuDip[™] Ractopamine 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 Ractopamine in urine with sensitivity at 5 ppb. If necessary, samples requiring regulatory action can be confirmed by HPLC, GC/MS, or other conventional methods.

Intended Use

The AccuDip[™] Ractopamine test strip is a competitive lateral flow strip test for the qualitative analysis of Ractopamine in urine. The sensitivity of test is 5 ppb (5 ng/ml).

Safety Instructions

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



Assay Principles

AccuDip™ Ractopamine test strip is based on a competitive immunoassay principle. An anti-Ractopamine monoclonal antibody is conjugated to colloidal gold and placed on conjugate pad. Colloidal gold provides red color to visualize antibody-antigen binding. Ractopamine-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 Ractopamine or Ractopamine amount lower than detection limit, antibody conjugated to colloidal gold will bind Ractopamine immobilized on membrane and present a red colored band on detection line on membrane. If Ractopamine concentration is higher than detection limit in test sample, it will compete with immobilized Ractopamine 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 Ractopamine 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



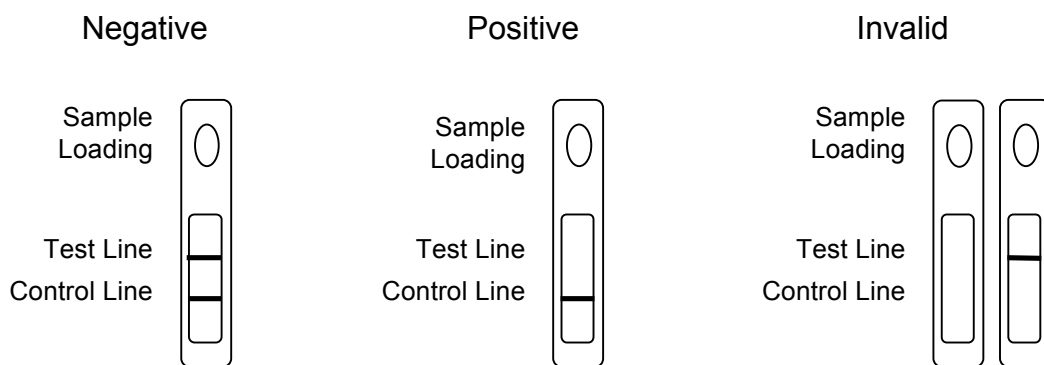
Result Interpretation

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 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: 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 or call (408) 368-1364.

General Limited Warranty

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