

Instructions for Use

Version: 1.0.1

Revision date: 14-Aug-25

Clenbuterol-Ractopamine-Salbutamol (CLE-RAC-SAL) Rapid Test Kit

Catalog No.: abx092061

Size: 20 / 50 / 80 tests

Storage: Store all reagents at 2°C – 30°C. Keep dry.

Application: For qualitative detection of Clenbuterol-Ractopamine-Salbutamol in muscle tissue homogenate.

Detection Limit: CLE: 3 ng/ml / RAC: 3 ng/ml / SAL: 5 ng/ml

Introduction and Assay Principle

Abbexa's Clenbuterol-Ractopamine-Salbutamol (CLE-RAC-SAL) Rapid Test Kit is based on the competitive gold immuno-chromatography assay (GICA) principle. Any CLE-RAC-SAL present in the samples combines with the colloidal gold particle-labelled CLE-RAC-SAL antibody, preventing the CLE-RAC-SAL antibody from binding to the CLE-RAC-SAL conjugate at the detection line. When the concentration of CLE-RAC-SAL in the sample is more than the detection limit, there is no color change in the detection line and the result is positive. When the concentration of CLE-RAC-SAL in the sample solution is less than the detection limit, there is no color change in the detection line and the result is negative.

Kit Components

- Test cassettes with pipettes
- Extraction Reagent

Material Required But Not Provided

- High-precision pipette and sterile pipette tips
- Timer
- Centrifuge
- Centrifuge tubes
- Mechanical homogenizer
- Balance

A. Sample preparation

- **Muscle Tissue:** Homogenize muscle tissue by hand, using a mechanical homogenizer. Carefully weigh 1 ± 0.05 g of muscle tissue homogenate in a clean centrifuge tube and add 1 ml of Extraction Reagent. Centrifuge at 5000 rpm for 5 minutes. Collect the supernatant into for detection.

B. Assay procedure

1. Take a test cassette and lay it flat on a clean table. Using the provided pipette, slowly and vertically add 3 drops of sample to each sample (S) well on the test cassette. Avoid foaming.
2. Leave at room temperature for 5 minutes, then analyze the result.

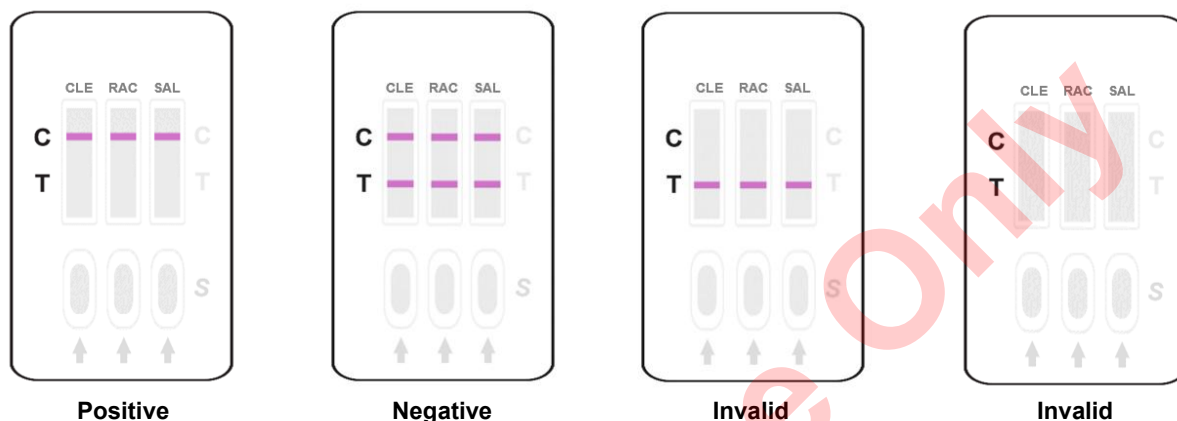
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C. Results analysis

- **Positive result:** A colored line is observed in the control (C) section but not the test (T) section.
- **Negative result:** A colored line is observed in both the control (C) section and the test (T) section.
- **Invalid result:** No colored line is observed in the control (C) section.



Notes

1. The test cassettes should be brought to room temperature before use.
2. After opening the aluminum foil, use the test cassette as soon as possible.
3. Samples should be clear with no visible particles, turbidity, or bacterial pollution.
4. Do not mix or re-use the disposable pipettes to avoid cross-contamination.
5. Do not use water, PBS, or similar solutions as the negative control.
6. Avoid touching the cassette membrane through the sample well or test result window.
7. This kit is for qualitative detection of CLE-RAC-SAL in muscle tissue homogenate. For other sample types, a preliminary experiment is recommended to determine compatibility with this kit. Positive samples can be tested with another method (e.g. HPLC, LC/MS) for quantitative results.
8. This kit is for research use only and the results are for reference only.
9. Do not use this kit with reagents from different lot numbers or manufacturers.
10. All waste should be disposed appropriately. Please check local disposal regulations.

Technical Support

For troubleshooting and technical assistance, please contact us at support@abbexa.com.