

USER GUIDE



ECALBIO® Etomidate Rapid Test Kit

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1 Summary

Etomidate is defined as a short-acting intravenous anesthetic used primarily for the induction of anesthesia, particularly in patients who cannot tolerate hypotension. It is characterized by minimal cardiovascular effects and maintains hemodynamic stability, but can inhibit steroidogenesis and cause nausea, vomiting, and other disruptive effects.

2 Principle

Etomidate rapid test kit is based on lateral flow immunochromatographic assay to detect Etomidate in the serum and tissue sample.

The test device has a testing window. The testing window has an invisible T (test) zone and C (control) zone. When sample is applied into the sample hole on the device, the liquid will laterally flow on the surface of the test strip. The Test card yields a positive result and T zone is invisible if Etomidate in the sample exceed the detect limit.

3 Technical Specification

Detect limit: 50 ppb

Specification: 40 tests/kit

Detect time: 30 min

4 Storage and expiry date

Store at 4-30°C for 12 months in the dark. Do not freeze.

Expiry date is labeled on the package.

5 Materials provided

Rapid Test Card	40 Pcs
Sample Extractant	20 mL, 2 bottles

6 Materials required not provided

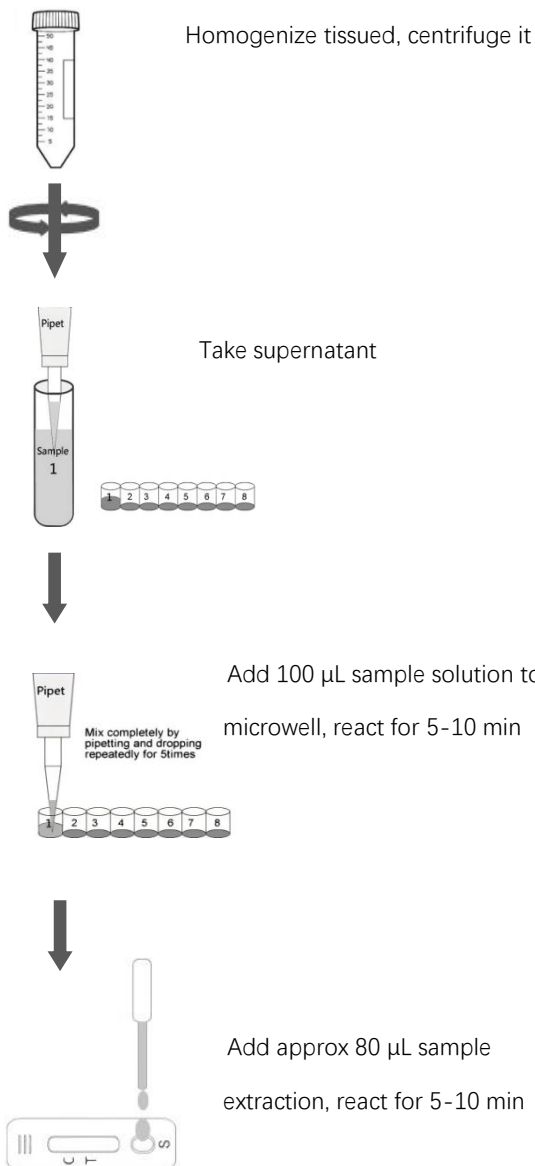
Deionized water

Centrifuge tube: 5 mL, 10 mL

Micropipettors: 20~200 µL, 100~ 100 µL

Vortex, centrifuge, balance (0.01g), homogenizer, shaker

7 Workflow



8 Sample Preparation

--Tissue

- ① Take 0.5 ± 0.05 g of the homogenized tissue, add 2 mL Sample Extractant, shake for 5min completely.
- ② Centrifuge at above 4000 r/min at room temperature (20-25 °C) for 5 min.
- ③ Transfer 3 mL supernatant, evaporate to dryness by nitrogen at 50~60 °C.
- ④ Add 1 mL Sample Extractant, shake properly.
- ⑤ Take 80 μ L for analysis.

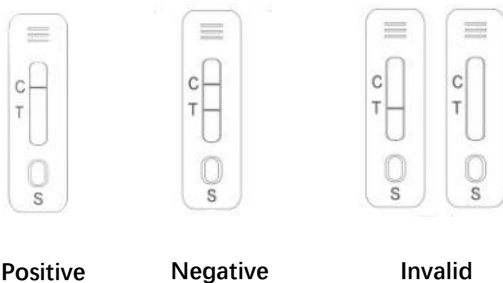
--Urine

- ① Collect 1mL urine, centrifuge at above 4000 r/min at room temperature (20-25°C) for 5 min.
- ② Take 80 μ L clear urine for analysis.
(Note: store urine sample at 2-8 °C if don't use immediately for short time.)

9 Sample Determination

- ① Take out the cassette from the pack and place it horizontally.
- ② Return to room temperature (20-25 °C), determine the cassette immediately.
- ③ Add 100 μ L sample solution to microwell , mix completely by pipetting and dropping repeatedly for 5 times, react for 5-10 min.
- ④ Add 2 -3 drops (Approx 80 μ L) sample extraction the hole of the card, react for 5-10 min and read result.

10 Result Judgement



- ① **Positive:** The presence of "C" band and matter "T" band.
It means that Etomidate in the sample extraction is higher than 50 ppb.
- ② **Negative:** The presence of "C" band, no matter "T" band.
It means that Etomidate in the sample extraction is lower than 50 ppb .
- ③ **Invalid:** No colored band appears in C zone, no matter whether T band appears.

11 Note

- 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.
- ⑦ Do not mix components from different lot numbers.

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