

Borax Test Kit

Catalog No: E-IA-C083

100T

Version Number:	V1.0
Replace version:	/
Revision Date:	2026.07.09

This manual must be read attentively and completely before using this product.

If you have any problems, please contact our Technical Service Center for help.

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Email: techsupport@elabscience.com

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Please kindly provide us the lot number (on the outside of the box) of the kit for more efficient service.

Test principle

This product is used for the rapid detection of Borax in beef, beef balls, beef products, flat meat, wonton, fish balls, oil noodles, steamed dumplings, dumpling fillings, various zongzi, assorted pastries, shrimp, etc, featuring simple operation and short detection time.

Technical indicator

Detection limit: 0.5 mg/mL.

Kits components

Item	Specifications
Detection Solution A	1 vial
Detection Solution B	1 vial
Turmeric Test Strip	1 pack
Sample Cup	1 pack
Dropper	1 pack
Manual	1 copy

Note: All reagent bottle caps must be tightened to prevent evaporation and microbial pollution.

Other materials required but not supplied

Instruments: Homogenizer, Nitrogen Evaporators, Water bath, Centrifuge, Graduated pipette, Balance (sensitivity 0.01g), Oscillators, EP tubes, Hair dryer .

Micropipette: Single channel (20-200 μ L, 100-1000 μ L)

Notes

1. FOR RESEARCH USE ONLY. Do not use product out of date.
2. The sample cup can be reused after rinsing and air-drying.
3. After use, store the test strips in the black light-proof bag.
4. The reagents are slightly corrosive. Wash your hands immediately after testing.
5. Ensure the test strips are fully dried before color judgment. The temperature of the hair dryer shall be controlled between 60°C and 70°C.
6. **Each reagent is optimized for use in the E-IA-C083. Do not substitute reagents from any other manufacturer into the test kit. Do not combine reagents from other E-IA-C083 with different lot numbers.**
7. Dispose of solid and liquid waste generated after using this product in accordance with local regulatory requirements to prevent contamination.
8. This method is applicable to on-site rapid testing. Samples whose test results do not comply with standard limits or labeled values shall be measured in triplicate.
9. The kit is used for rapid screening of actual samples. If the test result is positive, the instrument method such as HPLC, LC/MS, etc. can be used for quantitative confirmation.

Storage and expiry date

Storage: Store at 2-30°C. With cool and dry environment.

Expiry date: expiration date is on the packing box.

Operating Procedures

1. **Sample Pretreatment:** Cut the sample into small pieces. Weigh 5 ± 0.05 g of the cut sample into a **Sample Cup**, add 20 mL of distilled water or purified water and soak for 5-10 minutes.
2. **Testing Procedure:**
 - 1) Tear off one **Turmeric Test Strip**. Use a dropper to draw the sample supernatant and drop 1 drop onto the center of the test strip. Immediately add 1 drop of **Detection Solution A** to the same position on the strip. Tilt the test strip slightly to fully mix the two liquids evenly as much as possible.
 - 2) Hold one corner of the test strip by hand or with tweezers, and gently dry the strip with a hair dryer set to low heat for approximately 3 minutes.
 - 3) If a red or reddish-brown stain appears on the test strip, add **Detection Solution B** and observe the color change of the stain.

Judgment of result

1. **Positive:** If a distinct red or reddish-brown stain forms in the sample liquid area after drying, and the stain turns greenish-black or blue-purple upon adding Detection Solution B, the result is positive. This means borax or boric acid is present in the sample; the deeper the red/reddish-brown stain, the higher the concentration of borax.
2. **Negative:** If no red or reddish-brown stain appears in the sample liquid area of the dried test strip, or only a tiny faint red/reddish-brown spot is visible, the result is negative. This indicates that borax or boric acid is absent in the sample.