

Nitrite Test Kit

Catalog No: E-IA-C081

100T

Version Number:	V1.0
Replace version:	/
Revision Date:	2026.06.22

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.

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017

Email: techsupport@elabscience.com

Website: www.elabscience.com

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 Nitrite in meat products such as ham, Chinese sausage, sweet pork belly, Cantonese cured pork, canned meat, red sausage, meat sausage, sausage, braised pork, and cooked pork, as well as foods like pickled vegetables, featuring simple operation and short detection time.

Technical indicator

Detection limit: 1 mg/kg.

Kits components

Item	Specifications
Detection Solution A	1 vial
Detection Solution B	1 vial
2 mL Test Tube	1 pack
Activated Charcoal	1 pack
Filter Paper	1 pack
Sample Cup	1 pack
Dropper	1 pack
Color Comparison Card	1 piece
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.

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

Notes

1. FOR RESEARCH USE ONLY. Do not use product out of date.
2. The test tube and sample cup can be reused after rinsing and air-drying.
3. Shake the detection solution well before use and add dropwise, store away from light at all times.
4. **Each reagent is optimized for use in the E-IA-C081. Do not substitute reagents from any other manufacturer into the test kit. Do not combine reagents from other E-IA-C081 with different lot numbers.**
5. Pure water or deionized water must be used for sample soaking during sample pretreatment.
6. Dispose of solid and liquid waste generated after using this product in accordance with local regulatory requirements to prevent contamination.
7. 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.
8. 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 treatment: Cut the sample into small pieces. Weigh 2 ± 0.05 g of the cut sample into a **Sample Cup**, add 20 mL of distilled water or purified water and soak for 10-15 min. (If the sample is dark in color, add 0.5-1 g of **Activated Charcoal** for decolorization.)
2. Pipette 1 mL of sample supernatant into a 2 mL Test Tube , add 2 drops of **Detection Solution A** and 2 drops of **Detection Solution B** to the test tube, cap and mix well, then observe the color development after 2 minutes.

Judgment of result

1. Negative: No color change or any color other than purplish red indicates a negative reaction.
2. Positive: If the solution turns purplish red, compare it with the **Color Comparison Card**; the color that matches most closely corresponds to the Nitrite content. The unit concentration of the colorimetric card is **mg/kg**.