

Iodine in Iodized Salt Test Kit

Catalog No: E-IA-C020

100T

Version Number:	V1.0
Replace version:	/
Revision Date:	2026.06.09

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.

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 Iodine in edible iodized salt, featuring simple operation and short detection time.

Technical indicator

Detection limit: 10 mg/kg.

Kits components

Item	Specifications
Detection Solution A	1 vial
Detection Solution B	1 vial
Detection Solution C	1 vial
2 mL Test Tube	1 pack
Sample Cup	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 μ L, 100-1000 μ L)

Notes

1. FOR RESEARCH USE ONLY. Do not use product out of date.
2. The test tubes 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. The test solution is corrosive. Avoid contact with skin and mucous membranes. In case of eye contact, immediately rinse with plenty of clean water.
5. **Each reagent is optimized for use in the E-IA-C020. Do not substitute reagents from any other manufacturer into the test kit. Do not combine reagents from other E-IA-C020 with different lot numbers.**
6. This method is applicable to salt fortified with potassium iodate.
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. Weigh 1 ± 0.05 g of salt and dissolve it in 10 mL of water to prepare the sample solution.
2. Pipette 0.5 mL of the sample solution into a **2 mL Test Tube**. Add 2 drops of **Detection Solution A** and 2 drops of **Detection Solution B**, then let the mixture react in the dark for 10-15 minutes. Subsequently add 2 drops of **Detection Solution C** and mix well. Observe the color development after 5 minutes.

Judgment of result

1. The color varies depending on the iodine content in salt, ranging from colorless to blue. For quantitative determination, compare the color with the **Color Comparison Card**. The corresponding value of the closest color represents the iodine content of the sample salt. The unit concentration of the colorimetric card is **mg/kg**.