

## Sodium Cyclamate Test Kit

Catalog No: E-IA-C021

100T

<b>Version Number:</b>	V1.0
<b>Replace version:</b>	/
<b>Revision Date:</b>	2026.05.14

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](mailto:techsupport@elabscience.com)

Website: [www.elabscience.com](http://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 kit determines the content of cyclamate by visual color comparison, based on the principle that cyclamate reacts with test reagents to form milky white precipitate.

This product is used for the rapid detection of Sodium Cyclamate in Baijiu (Chinese liquor), soft drinks, fruit juice, ice cream, jelly, pastry foods, as well as candied fruits, condiments, pickled vegetables, etc, featuring simple operation and short detection time.

**Technical indicator**

**Detection limit:** 0.65 g/kg.

**Kits components**

Item	Specifications
Detection Solution A	1 vial
Detection Solution B	1 vial
Detection Solution C	1 vial
Sample Cup	1 pack
Activated Carbon	1 pack
Filter Paper	1 pack
2 mL Test Tube	1 pack
Straw	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  $\mu$ L, 100-1000  $\mu$ L)

**Notes**

1. FOR RESEARCH USE ONLY. Do not use product out of date.
2. The test tubes, 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-C021. Do not substitute reagents from any other manufacturer into the test kit. Do not combine reagents from other E-IA-C021 with different lot numbers.**
5. Dispose of solid and liquid waste generated after using this product in accordance with local regulatory requirements to prevent contamination.
6. If the test reagent gets into eyes, rinse immediately with plenty of clean water.
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 pretreatment:** Colorless and transparent beverages can be tested directly. Pigmented liquids and solid samples need decolorization with activated carbon. The specific procedures are as follows. Pipette 10±0.05 mL liquid sample, or dissolve 2±0.05 g solid sample in 20 mL purified water, add 0.5 g **Activated Carbon**, heat in water bath at 50°C until the sample becomes colorless, filter with filter paper, then cool down to room temperature.
2. **Detection:** Pipette 1 mL of sample supernatant into the test tube, add 2 drops of **Detection Solution A**, 2 drops of **Detection Solution B** and 2 drops of **Detection Solution C**, mix well, and observe the color development after 5 minutes.

**Judgment of result**

No color change indicates negative reaction; milky white precipitate formation indicates positive reaction.

Compare the results with the **Color Comparison Card**, the closest color indicates the Sodium Cyclamate content. The unit concentration of the colorimetric card is **g/kg**.