

Water-Soluble Non-Edible Pigments Test Kit

Catalog No: E-IA-C058

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 Water-Soluble Non-Edible Pigments in food, beverages, etc, featuring simple operation and short detection time.

Kits components

Item	Specifications
Detection Solution A	10 vials
Detection Solution B	10 vials
60 mL Sample Cup	1 pack
Absorbent Cotton	10 packs
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 Do not use product out of date.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 tubes can be reused after rinsing and air-drying.
3. Handle with care to avoid skin contact. In case of accidental eye contact, flush eyes immediately with plenty of clean water.
4. Precautions for solid sample pretreatment: Grind the pigmented portions of solid samples and dry them with an electric hair dryer. For high-fat samples: first grind and air-dry the sample, add an appropriate amount of petroleum ether to extract fats, then air-dry again. Add water to fully dissolve pigments, filter through rapid qualitative filter paper, and wash the residue with a small volume of water until it becomes colorless. If the filtrate is pale, concentrate it in a water bath.
5. Result interpretation: Take a small amount of absorbent cotton, soak it in water, and use it for comparative visual observation.
6. **Each reagent is optimized for use in the E-IA-C058. Do not substitute reagents from any other manufacturer into the test kit. Do not combine reagents from other E-IA-C058 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. Transfer 10 mL sample solution into a sample cup or 100 mL beaker, add 20 drops of **Detection Solution A** and mix well. Use tweezers to take a small piece of **Absorbent Cotton**, immerse it in the liquid, heat and stir in an approximately 80 °C water bath for 2 minutes. Take out the absorbent cotton and rinse it with water at least 5 times.
2. Place the water-rinsed absorbent cotton into another sample cup or 100 mL beaker, add about 10 mL water and 20 drops of **Detection Solution b**, stir thoroughly with tweezers. Heat and stir in an approximately 80 °C water bath for 3-5 minutes, then take out the absorbent cotton and rinse it with water 3 to 5 times.

Judgment of result

1. **Positive:** If the absorbent cotton develops color, it indicates that non-edible pigments are present in the sample.