Volatile Basic Nitrogen Test Kit

Catalog No: E-IA-C039

100T

Version Number:	V1.1
Replace version:	V1.0
Revision Date:	2026.06.03

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.

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Test principle

This product is used for the rapid detection of Volatile Basic Nitrogen in various fresh (frozen) meat and aquatic products, featuring simple operation and short detection time. Total Volatile Basic Nitrogen (TVB-N) is an important indicator for the freshness of various fresh (frozen) meat and aquatic products.

Technical indicator

Detection limit: 1 mg/100g.

Kits components

Item	Specifications
Detection Solution A	2 vials
Sample Cup	1 pack
1.5 mL Test Tube	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 (sensibility 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 Do not use product out of date.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, 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-C039. Do not substitute reagents from any other manufacturer into the test kit. Do not combine reagents from other E-IA-C039 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. 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.
7. 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℃. With cool and dry environment.

Expiry date: expiration date is on the packing box.

Operating Procedures

1. Sample treatment: Take an appropriate amount of sample, weigh 2.00±0.05 g with a balance, crush it in a **Sample Cup**, add 20 mL of distilled water or purified water, and soak for 10-15 minutes.
2. Pipette 1 mL of the supernatant of sample extract into a **1.5 mL Test Tube**, add 5 drops of **Detection Solution A** to the test tube, and shake well.
3. Observe the test result within 5 minutes.

Judgment of result

Compare the results with the **Color Comparison Card**, the closest color indicates the volatile basic nitrogen content. The unit concentration of the colorimetric card is **mg/100g**.

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