

Phosphate Test Kit

Catalog No: E-IA-C082

100T

Version Number: V1.0
Replace version: /
Revision Date: 2026.07.16

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 Phosphate in frozen aquatic products (shrimp, surimi, etc.) and meat products, featuring simple operation and short detection time.

Technical indicator

Detection limit: 5 g/kg.

Kits components

Item	Specifications
Detection Solution A	2 vials
Detection Solution B	2 vials
1.5 mL Test Tube	1 pack
15 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 (sensitivity 0.01g), Oscillators, EP tubes, Blender.

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 Do not use product out of date.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 tube 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-C082. Do not substitute reagents from any other manufacturer into the test kit. Do not combine reagents from other E-IA-C082 with different lot numbers.**
5. Pay attention to safety when using reagents. If any reagent splashes onto the skin, rinse the affected area immediately with clean water.
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 Pretreatment:**

- 1) Thaw the sample, mince it into puree or homogenize with a blender. Weigh 1 g of the homogenized sample into a **15 mL Test Tube**, add 9 mL of purified water or distilled water, vortex thoroughly for 2-3 minutes, then centrifuge at 4000 rpm for 3 minutes.
- 2) Take a new **15 mL Test Tube**, add 10 mL purified water, then transfer 100 µL of the supernatant obtained from the above centrifugation. Invert the tube up and down 10 times for uniform mixing to prepare the test solution.
2. Transfer 1 mL test solution into a **1.5 mL Test Tube**, add 100 µL (approx. 2 drops) of **Detection Solution A** and 50 µL (approx. 1 drop) of **Detection Solution B**. Shake vigorously for 10 seconds, then let stand for 3-5 minutes for result interpretation. Readings taken beyond this time window are invalid.

Judgment of result

Compare the color with the **Color Comparison Card**, and the corresponding value represents the Phosphate concentration in the food sample. The unit concentration of the colorimetric card is **g/kg**.