

pH Value Test Kit

Catalog No: E-IA-C024

100T

Version Number:	V1.0
Replace version:	/
Revision Date:	2026.06.22

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 pH Value in water sample (fields including urban water supply, food and beverage, environmental protection, medical treatment, chemistry, pharmaceuticals, thermal power, papermaking, aquaculture, bioengineering, fermentation technology, textile printing and dyeing, petrochemical industry, water treatment, etc), featuring simple operation and short detection time.

Technical indicator

Detection limit: pH: 6.5-9.5.

Kits components

Item	Specifications
pH Reagent A	2 vials
pH Reagent B	2 vials
Colorimetric 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.

Micropipette: Single channel (20-200 µL, 100-1000 µL)

Notes

1. FOR RESEARCH USE ONLY. Do not use product out of date.
2. The Colorimetric 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-C024. Do not substitute reagents from any other manufacturer into the test kit. Do not combine reagents from other E-IA-C024 with different lot numbers.**
5. The test liquid shall be colorless or light-colored. Liquids with distinct colors must be decolorized prior to testing. (Decolorization methods for solutions: activated carbon adsorption or dilution.)
6. If the test liquid is turbid, let it stand for a period of time and take the clear supernatant for testing.
7. The pH value of the test liquid shall fall within the specified range; adjust the pH in advance if it exceeds the limit.
8. Color comparison must be completed within the specified time. Test results obtained beyond the time limit shall be invalid.

9. If the concentration of the test liquid exceeds the detection range, dilute the sample with distilled water before testing. Pure water or deionized water must be used for sample soaking during sample pretreatment.
10. Dispose of solid and liquid waste generated after using this product in accordance with local regulatory requirements to prevent contamination.
11. 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.
12. 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. pH 6.5-8.0
 - a) Rinse the colorimetric tube twice with the water sample to be tested, then fill the tube with the water sample up to the graduation mark.
 - b) Add 3 drops of **pH Reagent A** into the tube, cap the tube and shake to fully dissolve the reagent.
 - c) Perform visual color comparison against the **Color Comparison Card** by looking vertically downwards with one eye.
2. pH 8.0-9.5
 - a) Rinse the colorimetric tube twice with the water sample to be tested, then fill the tube with the water sample up to the graduation mark.
 - b) Add 3 drops of **pH Reagent B** into the tube, cover the tube cap and shake to dissolve the reagent completely.
 - c) Carry out visual color comparison with the **Color Comparison Card** by viewing vertically downward with one eye.

Judgment of result

The color standard with the same tone as the solution in the colorimetric tube corresponds to the pH value of the water sample.

During testing, accurate measurement is difficult when the pH value falls within the **Color Comparison Card** range of 7.4-8.0. In such cases, use **pH Reagent B** for follow-up testing. If the resulting color is lighter than the 8.0 shade on the 8.0-9.5 **Color Comparison Card**, the water sample is judged to be alkaline, and readings can be taken directly against the 8.0-9.5 **Color Comparison Card**.