



KYORITSU PACKTEST INSTRUCTIONS

TOC

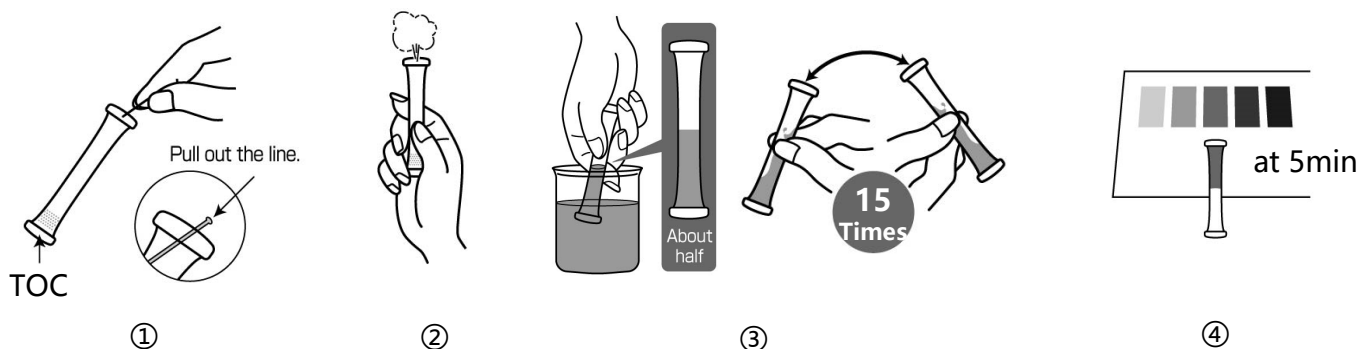
Model: WAK-TOC

Estimation of TOC Value by Potassium Permanganate Visual Colorimetric Method

Main Reagent: Potassium Permanganate

Measuring Range: 0 - 50 mg/L (ppm)

How to Use



- ① Remove the colored line at the top of the tube to clear the aperture.
- ② Press the tube's side wall to expel air and hold the tube.
- ③ Immerse the aperture of the tube into the sample, release the finger to fill up the tube halfway. Invert the tube back and forth lightly for 15 times.
- ④ At 5min, place the tube on the provided Standard Color as shown to compare the color.

How to Read the Result

After the reaction time, compare the color of the tube with Standard Color. The nearest color indicates the concentration value of the analyte in your sample. A color between two standard colors indicate the value between them.

Handling of PACKTEST Before and After Use

The content of the tube is **Strong Alkali**. Hazardous when contacting with eyes.

First Aid

Eye Contact → Immediately flush eyes with water for at least 15min, followed by consult with Ophthalmologist, even without any symptom.

Skin/Cloth Contact → Immediately flush contacted area with water.

Ingestion → Immediately rinse mouth.

If swallowed the content or any symptom appears, seek medical advice immediately. Please refer to SDS for further information.

Storage

Keep unused PACKTEST tubes in the provided preserving bag after opening the laminated package and use them as soon as possible. Depending on the storage condition, the reagent may deteriorate in several days especially under the hot and humid weather.

Disposal

For business use, please follow in the manner consistent with relevant laws and regulations. Otherwise, the tube can be disposed as combustible waste.

PACKTEST TOC

Caution

1. The value obtained by this method is an approximate value of TOC. Please be sure to confirm the correlation with official method prior to use. Depending on the sample, the correlation may fluctuate.
2. Unclean container used to collect sample or stains on hands may affect the result. Please use clean container and wash hands thoroughly prior to measure.
3. Keep temperature of the sample between 15-30°C (recommended to use at 20°C) When the sample water temperature is below 15°C, the reaction will be slower and reading will be lower. When the sample water is above 30°C, the reaction will proceed faster and the reading will be higher.
4. After passing the specified reaction time, the reaction will proceed excessively and result in false positive reading.
5. With 50mg/L standard solution, the color changes from light yellow → light brown → colorless as the concentration increases. When the result is expected to exceed 50mg/L, please dilute the sample prior to use.
6. The optimum pH upon reaction will be around 13. If the pH of the sample will be less than 5, please adjust pH 7 or higher with diluted sodium hydroxide solution prior to measurement.
7. Ensure that the PACKTEST tube is filled up to half. **Larger or smaller sample volume will imply higher or lower value, respectively.**
8. PACKTEST Square Cup (Model: WAK-CC10) is sold separately. It will help getting sample at 1.5mL constantly, also help drawing the sample into tube easily.
9. When comparing to the Standard Color, please be sure to read under the daylight. It may be difficult to determine the color under the direct sunlight, certain florescent lights, mercury lamp or LED.
10. You can put the line back into the aperture to seal. This will avoid possibility of spilling the content of the tube.

About TOC

TOC is an abbreviation for **T**otal **O**rganic **C**arbon. It is used as an index of organic pollution of water quality, and has the feature that it is less affected by differences in degradability of coexisting components and organic substances in sample water than pollution indices such as COD and BOD.

【Caution】

- This product is made for analyzing water quality purpose only. Do not use for any other purpose.
- This product contains small amount of chemicals. Please read instruction manual, GHS labels, SDS, and other necessary document thoroughly prior to use.
- Please keep this information handy for future reference.

<Safety> ● Please wash your hands thoroughly before and after the test.
Do not inhale the chemical reagents.

- It is highly recommended to wear protective gloves, eye protection, and mask upon using this product.

- Avoid release chemical reagents or waste solution to the environment.

<Storage> ● Please keep this product out of reach of children. Keep it in the dry and dark place at room temperature.

<Other> ● Please check the expiration date shown on the box, and make sure to use within the date.

- Specifications are subject to change without notice.



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