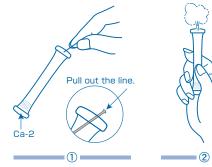
KYDRITSU PACKTEST INSTRUCTIONS

Calcium

Model WAK-Ca-2

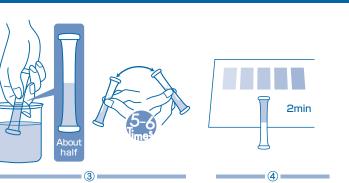
PC (Phthalein Complexon) **Visual Colorimetric Method** Main Reagent: Phthalein Complexon

How Use to



①Remove the colored line at the top of the tube to clear the aperture.

2 Press the tube's side wall to expel the air, and hold the tube.



- ③Immerse the aperture of the tube into the sample, release the finger to fill the tube halfway. Invert the tube back and forth lightly for 5 to 6 times.
- (Compare the actual color in the tube with Standard Color after 2 min.

How to Read the Result

At 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 indicates the value between them.

Handling of PACKTEST Before and After Use

First Aid) Eye contact \rightarrow Immediately flush eyes with plenty of water. Skin contact → Immediately flush contacted area with water. **Ingestion** \rightarrow Immediately rinse mouth. If swallowed the content or any symptom appears, seek medical advice immediately. Please refer to SDS for further information.

Storage Use PACKTEST tubes as soon as possible after opening the laminated package. Reagents are relatively heat-sensitive. Please avoid high temperature and humidity.

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



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PACKTEST Calcium

Caution

- 1. This product allows to measure Calcium ion (Ca²⁺) in the sample. If the value including turbidity and precipitation, such as carbonate and hydroxide, is required, please dissolve them prior to use.
- 2. If you need a value of Calcium Hardness, read the number in the parentheses of the Standard Color. Alternatively, multiply the measured value of magnesium ion by 2.5 to obtain Calcium Hardness. Calcium Hardness (CaCO₃ mg/L) = Calcium Ion (Ca mg/L) \times 2.5
- 3. The optimum pH upon reaction will be around 9. If the pH of the sample is exceeds 6-11, please neutralize with dilute sodium hydroxide solution or dilute sulfuric acid prior to measurement.
- 4. Calcium standard solution of 1000 mg/L develops color stronger 50 on Standard Color. When the value is expected to be high, please dilute the sample prior to use.
- 5. Keep the sample temperature between 15-40°C. If the sample temperature is low, it requires longer reaction time.
- 6. Ensure that the PACKTEST tube is filled up to half. Larger or smaller sample volume will imply higher or lower value, respectively.
- 7. Partially undissolved reagent will not affect the measurement.
- 8. 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.
- 9. You can put the line back into the aperture to seal. This will avoid possibility of spilling the content of the tube.

Interference

Standard Color is prepared based on the standard solution. If there are some coexisting substances that may cause interference, please compare the result with official method or standard addition method for verification. Below is the list of interference data for acceptable level by adding each of the single substances to the standard solution.

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 \label{eq:loss} \begin{array}{l} \leq 1000 \text{mg/L} &: \ Cl^-, \ K^+, \ Na^+, \ NO2^-, \ NO3^-, \ SO4^{2^-}, \ Anionic \ Surfactant \\ \leq 200 \text{mg/L} &: \ NH4^+, \ PO4^{3^-}, \ Residual \ Chlorine \\ \leq 20 \text{mg/L} &: \ Zn^{2^+} \\ \leq 10 \text{mg/L} &: \ Cu^{2^+}, \ Mn^{2^+} \\ \leq 8 \text{mg/L} &: \ \ Mg^{2^+} \\ \leq 0.5 \text{mg/L} &: \ \ Fe^{2^+}, \ \ Fe^{3^+} \end{array}
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Not suitable for measuring the seawater.

[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 handv 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, eve 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.
- <0ther>
 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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