

## ENVIKIT GH - Ca - Mg

## **ENVIKIT 12GH-Ca-Mg**

(≈ 2 x 100 tests)



- Thank you for choosing products of Binh Lan ENVIBIOCHEM. Please read instruction manual carefully before proceeding to ensure accurate results.
- Reagents contain base. In case of contact, immediately flush skin with plenty of water.



 Clean a tube and a glass bottle with clean water. Fill up the tube with sample water and transfer water to the glass bottle.



2. Add 4 drops of the Reagent 1. Swirl to mix.



**3.** Add 1-2 spoons of the Reagent 2. Swirl to mix. Water turns violet-pink.



4. Slowly add the Reagent 3 dropwise, swirling to mix after each drop while counting number of drops until a blue end point. The number of drops in this step is designated as "a".

- **5.** Repeat the step 1.
- 6. Add 4 drops of the Reagent 4. Swirl to mix.
- Clean the spoon with a dry tissue. Add 1-2 spoons of the Reagent 5. Swirl to mix. Water turns violet-pink.
- 8. Slowly add the Reagent 3 dropwise, swirling to mix after each drop while counting number of drops until a blue end point. The number of drops in this step is designated as "b".

General Hardness GH (mg/l) =  $a \times 100$ ) (3)

**Example**: a = 24, b = 4.  $Ca = 4 \times 40 = 160$  mg/l;  $Mg = (24 - 4) \times 24 = 480$  mg/l.  $GH = 24 \times 100 = 2400$  mg/l.

- Fill 2 tubes of sample water in both the steps 1 and 5 in the case of a or b is less than 4. To calculate Ca, Mg, and GH by the expressions (1), (2), (3), then 2 divide the getting by 2. Example 2: a = 24, b = 4. Ca = (4 × 40) : 2 = 80 mg/l; Mg = (24 4) × 24 : 2 = 240 mg/l. GH = 24 × 100 : 2 = 1200 mg/l.
- Salinity of a sample water is higher than 15 ‰: fill the test bottle with 3 ml of water. To calculate Ca, Mg, GH by the expressions (1), (2), (3), then multiply the getting by 2. Example 2: a = 24, b = 4. Ca = (4 × 40) × 2 = 320 mg/l; Mg = (24 4) × 24 × 2 = 960 mg/l. GH = 24 × 100 × 2 = 4800 mg/l.
- Keep the droppers vertically while dropping. Release pressing after each 6 drops.
- Wash the test bottle and measuring tube by clean water. Dry, and store in the box for the next test.

## **BINH LAN ENVIBIOCHEM COMPANY Limited**

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