

ENVIKIT GH – Ca - Mg

ENVIKIT 13GH-Ca-Mg



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



 Wash glass bottle and syringe by clean water. Fill up the glass bottle with 3 ml of sample water.



2. Add 1 spoon of the Reagent 1. Swirl to mix.



 Slowly add the Reagent 2 dropwise, swirling to mix after each drop while counting number of drops until water turns purple. Continue until water changes to violet. Stop at the blue end point. A number of drops is a.

- 4. Wash glass bottle by clean water.
- **5.** Repeat step 1.
- 6. Wipe the spoon with a dry tissue. Add 1 spoon of the Reagent 3. Swirl to mix. Slowly add the Reagent 4 dropwise, swirling to mix after each drop while counting number of drops until water turns purple. Continue until water changes to violet. Stop at the blue end point. A number of drops is b. Precipitate can appear during this step, but this has no effect on the result.

Calcium = [Ca] =
$$b \times 17$$
 (mg/l) (1)
Magnesium = [Mg] = ($a - 0.2 \times b$) × 50 (mg/l) (2)
General hardness (GH) = $a \times 208$ (3)

Example 1: a = 20, b = 20. [Ca] = $20 \times 17 = 340$ mg/l; [Mg] = $(20 - 0.2 \times 20) \times 50 = 800$ mg/l. GH = $20 \times 208 = 4160$ mg/l.

- If a or b <4, fill the glass bottle with 6m of sample in the steps 1 and 5. Calculate as in the expressions (1), (2), (3); then divide getting by 2. Example 2: water volume is 6 ml, a = 7, b = 6. [Ca] = (6 × 17) : 2 = 51 mg/l; [Mg] = (7 0.2×6) × 50 : 2 = 145 mg/l. GH = 208 × 7 : 2 = 728 mg/l.
- Salinity of a sample water is higher than 15 ‰: fill the glass bottle with 6m of sample in the steps 1 and 5. To calculate Ca, Mg, GH by the expressions (1), (2), (3), then multiply the getting by 2. Example 2: a = 10, b = 8. Ca = (10 × 17) × 2 = 340 mg/l; Mg = (10 0,2×8) × 50 × 2 = 840 mg/l. GH = 208 ×10× 2 = 4160 mg/l..
- Always keep reagent bottles vertically while dropping. Release pressing after each 6 drops.
- Wash all items by clean water, leave to dry in the air, and store in the box for the next test.

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