Dear Customer,

Thank you for choosing a Hanna Product. Please read the instruction sheet carefully before using the test kit. It will provide you with the necessary information for correct use of the kit. If you need additional information, do not hesitate to e-mail us at tech@hannainst.com.

Before performing the test, examine it carefully to make sure that no damage has occurred during shipping. If there is any noticeable damage, notify your Dealer or the nearest Hanna office immediately.

Each kit is supplied with:
- Phenolphthalein Indicator, 1 bottle with dropper (10 mL);
- Bromophenol Blue Indicator, 1 bottle with dropper (10 mL);
- HI 38013-0 Alkalinity Reagent, 2 bottles (2x105 mL);
- 1 calibrated plastic vessel (20 mL) with cap;
- 1 syringe (1 mL) with tip.

Note: Any damaged or defective item must be returned in its original packing materials.

INSTRUCTIONS

REPEAL ALL THE INSURANCES BEFORE USING THE TEST KIT

Determination of Phenolphthalein Alkalinity
- Remove the cap from the plastic vessel. Phenolphthalein Indicator is pinkish with water sample. Fill to the 5 mL mark and replace the cap.
- Add 1 drop of Phenolphthalein Indicator through the cap port, and note carefully by swirling the vessel in tight circles. If the solution remains colorless, record the result. If the solution is pink, record the amount of titrant x 1.

Determination of Total Alkalinity
- Take the syringe and push the plunger completely down into the syringe. Insert tip into the 0, 1, 20 gpg Alkalinity Reagent and pull the plunger out until the lower edge of the seal is on the 0 mL mark of the syringe.
- Take the syringe tip into the cap port of the vessel and slowly add the titration solution drop by drop swirling after each drop.
- Continue adding titration solution until the solution in the plastic vessel turns yellow.
- Read off the milliliters of titration solution from the syringe and multiply by 20 to obtain gpg CaCO3 of Total Alkalinity of your sample.

ml of titrant x 20 = gpg CaCO3

Low Range Determinations
If results are lower than 10 gpg the precision of the test can be improved as follows.

- Take the syringe and push the plunger completely down into the syringe. Insert tip into the HI 38013-0 Alkalinity Reagent and pull the plunger out until the lower edge of the seal is on the 0 mL mark of the syringes.
- Race the syringe tip into the cap port of the plastic vessel and slowly add the titration solution drop by drop swirling after each drop.
- Continue adding titration solution until the solution in the plastic vessel turns yellow.
- Read off the milliliters of titration solution from the syringe and multiply by 20 to obtain gpg CaCO3 of Total Alkalinity of your sample.

ml of titrant x 20 = gpg CaCO3

REFERENCES


Health and Safety

The chemicals contained in the test kit may be harmful if ingested or handled. Read the relevant Health and Safety Data Sheets before performing the test.