



SALT WATER AQUACULTURE KIT CODE 3636-04

NOTE: It is important to read the instruction manual before attempting to perform the tests with the short form instructions provided below.

*WARNING: Reagents marked with an * are considered to be potential health hazards. To view or print a Material Safety Data Sheet (MSDS) for these reagents go to www.lamotte.com. To obtain a printed copy, contact LaMotte by e-mail, phone or fax.

To order individual reagents or test kit components, use the specified code number.

AMMONIA NITROGEN

1. Fill test tube (0106) to 5 mL line with sample water.
2. Add 10 drops Salicylate Ammonia Reagent #1 (3978WT). Cap and mix.
3. Add 7 drops of Salicylate Ammonia Reagent #2 (3979WT). Cap and mix. Wait 1 minute.
4. Add 7 drops of Salicylate Ammonia Reagent #3 (3982WT). Cap and mix. Wait 20 minutes.
5. Insert Ammonia Nitrogen Octa-Slide 2 Bar (3441-01) into the Octa-Slide 2 Viewer (1101).
6. Insert test tube into Octa-Slide 2 Viewer.
7. Match sample color to a standard. Record as ppm Ammonia Nitrogen (NH₃-N).

NITRITE NITROGEN

1. Fill test tube (0106) to 2.5 mL line with sample water.
2. Dilute to 5 mL line with *Mixed Acid Reagent (V-6278).
3. Use 0.1g spoon (0699) to add 0.1g of *Color Developing Reagent (V-6281). Cap and mix by inverting for 1 minute. Wait 5 minutes.
4. Insert Nitrite Nitrogen Octa-Slide 2 Bar (3437-01) into Octa-Slide 2 Viewer (1101). Insert test tube into Octa-Slide 2 Viewer.
5. Match sample color to color standard. Record as ppm Nitrite Nitrogen (NO₂-N).

NITRATE NITROGEN

1. Fill test tube (0692) to 2.5 mL line with sample water.
2. Attach dispenser cap (0692) to the *Mixed Acid Reagent (V-6278). Fill tube to the 5 mL line. Cap and mix. Wait 2 minutes.
3. Use 0.1g spoon (0699) to add 0.1g of *Nitrate Reducing Reagent (V-6279). Cap and invert 50 - 60 times for one minute. Wait 10 minutes.
4. Insert Nitrate Nitrogen Octa-Slide 2 Bar (3109-01) into Octa-Slide 2 Viewer (1101).
5. Cap and invert one time before inserting test tube into Octa-Slide 2 Viewer (1101).
6. Insert test tube into Octa-Slide 2 Viewer.
7. Match sample color to color standard. Record as ppm Nitrate Nitrogen (NO₃-N).

ALKALINITY

1. Fill test tube (0608) to 5 mL line with sample water.
2. Add 4 drops of *BCG-MR Indicator (2311-EG). Cap and mix. Sample will turn blue-green.
3. Fill Direct Reading Titrator (0382) with *Alkalinity Titration Reagent B (4493DR). Insert the Titrator into the center hole of the test tube cap.
4. Titrate sample until blue-green color changes to pink.
5. Record as ppm Alkalinity (CaCO₃).

CARBON DIOXIDE

1. Fill test tube (0608) to 20 mL line with sample water.
2. Add 2 drops *Phenolphthalein Indicator, 1% (2246). If sample turns red, no free carbon dioxide is present. If colorless, proceed to Step 3.
3. Fill Direct Reading Titrator (0380) with *Carbon Dioxide Reagent B (4253DR).
4. Titrate sample until faint pink color persists for 30 seconds.
5. Record as ppm Carbon Dioxide (CO₂).

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