**ALKALINITY**

1. Fill test tube (0608) to 5 mL line with sample water.
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 change to pink.
5. Record as ppm Alkalinity (CaCO₃).

**NITRITE NITROGEN**

1. Insert Nitrite Nitrogen Octa-Slide 2 Bar (3437-01) into Octa-Slide 2 Viewer (1101).
2. Fill test tube (0106) to 2.5 mL line with sample water.
3. Dilute to 5 mL line with *Mixed Acid Reagent (V-6278).
4. 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.
5. Insert test tube into Octa-Slide 2 Viewer.

**CARBON DIOXIDE**

1. Fill test tube (0608) to 20 mL line with sample water.
2. Add 2 drops *Phenolphthalein Indicator, 1% (2218). Cap and mix. 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). Cap and mix.
4. Titrate sample until faint pink color persists for 30 seconds.
5. Record as ppm Carbon Dioxide (CO₂).

**DISSOLVED OXYGEN**

1. Fill test tube (0608) to 10 mL line with demineralized water (1151).
2. Fill the 1.0 mL Direct Reading Titrator (0376) to the 0 mark with sample water. Dispense 0.5 mL of sample water into test tube. Discard remaining sample in Titrator.
3. Add 3 drops of *Salinity Indicator Reagent A (7460) to test tube. Cap and gently swirl to mix. Sample will turn yellow.
4. Fill Direct Reading Titrator (0378) with *Salinity Titration Reagent B (7461). Cap and gently swirl to mix. Sample will turn pink-brown.
5. Titrate sample until yellow color changes to pink-brown.
6. Record as ppt Salinity.

**AMMONIA NITROGEN**

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

**SALT WATER AQUACULTURE KIT**

**ALKALINITY**

1. Fill test tube (0608) to 5 mL line with sample water.
3. Fill Direct Reading Titrator (0382) with *Alkalinity Titration Reagent B (4493DR) 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).

**NITRITE NITROGEN**

1. Insert Nitrite Nitrogen Octa-Slide 2 Bar (3437-01) into Octa-Slide 2 Viewer (1101).
2. Fill test tube (0106) to 2.5 mL line with sample water.
3. Dilute to 5 mL line with *Mixed Acid Reagent (V-6278).
4. 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.
5. Insert test tube into Octa-Slide 2 Viewer.

**SALINITY**

1. Fill test tube (0608) to 10 mL line with demineralized water (1151).
2. Fill the 1.0 mL Direct Reading Titrator (0376) to the 0 mark with sample water. Dispense 0.5 mL of sample water into test tube. Discard remaining sample in Titrator.
3. Add 3 drops of *Salinity Indicator Reagent A (7460) to test tube. Cap and gently swirl to mix. Sample will turn yellow.
4. Fill Direct Reading Titrator (0378) with *Salinity Titration Reagent B (7461). Cap and gently swirl to mix. Sample will turn pink-brown.
5. Titrate sample until yellow color changes to pink-brown.
6. Record as ppt Salinity.

**DISSOLVED OXYGEN**

1. Fill test tube (0608) to 10 mL line with demineralized water (1151).
2. Fill the 1.0 mL Direct Reading Titrator (0376) to the 0 mark with sample water. Dispense 0.5 mL of sample water into test tube. Discard remaining sample in Titrator.
3. Add 3 drops of *Salinity Indicator Reagent A (7460) to test tube. Cap and gently swirl to mix. Sample will turn yellow.
4. Fill Direct Reading Titrator (0378) with *Salinity Titration Reagent B (7461). Cap and gently swirl to mix. Sample will turn pink-brown.
5. Titrate sample until yellow color changes to pink-brown.
6. Record as ppt Salinity.