Ammonia CHEMets® Kit

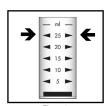
K-1510/R-1501: 0 - 1 & 1 - 10 ppm N

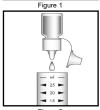
Safety Information

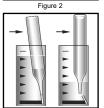
Read SDS (available at www.chemetrics.com) before performing this test procedure. Wear safety glasses and protective gloves.

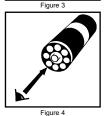
Non-Seawater Test Procedure

- 1. Fill the sample cup to the 25 mL mark with the sample to be tested (fig. 1).
- 2. Add 2 drops of A-1500 Stabilizer Solution (fig. 2). Stir to mix the contents of the cup.
- 3. Place the CHEMet ampoule, tip first, into the sample cup. Snap the tip. The ampoule will fill leaving a bubble for mixing (fig. 3).
- To mix the ampoule, invert it several times, allowing the bubble to travel from end to end.
- 5. Dry the ampoule. Obtain a test result **1 minute** after snapping the tip.
- 6. Obtain a test result using the appropriate comparator.
 - a. Low Range Comparator (fig. 4): Place the ampoule, flat end first, into the comparator. Hold the comparator up toward a source of light and view from the bottom. Rotate the comparator until the best color match is found.









b. High Range Comparator (fig. 5): Place the ampoule between the color standards until the best color match is found.

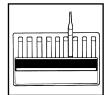


Figure 5

Seawater Test Procedure

Product Change Notice: The following components are no longer included in this kit: A-1501 Stabilizer Solution and 1 mL syringe, Catalog No. A-0027. These accessories are sold separately for use in seawater testing.

- 1. Add 1.0 mL of A-1501 Stabilizer Solution to the empty sample cup.
- 2. Fill the sample cup to the 25 mL mark with the seawater sample to be tested (fig 1).
- 3. Perform the Test Procedure above, beginning with Step 3.

Test Method

The Ammonia CHEMets[®]1 test kit employs direct nesslerization.^{2,3} In a strongly alkaline solution, ammonia reacts with Nessler Reagent (K₂Hgl₄) to produce a yellow-colored complex in direct proportion to the ammonia concentration.

This method is applicable to drinking water, clean surface water, good quality nitrified wastewater effluent and seawater. Other types of samples may require a preliminary distillation step. Ketones, alcohols, and aldehydes may cause off-color test results. Glycine and hydrazine will cause high test results. Aromatic and aliphatic amines, iron, sulfide, calcium and magnesium may cause turbidity.

- 1. CHEMets is a registered trademark of CHEMetrics, Inc. U.S. Patent No. 3,634,038
- 2. APHA Standard Methods, 18th ed., Method 4500-NH3 C 1988
- 3. ASTM D 1426 08, Ammonia Nitrogen in Water, Test Method A



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