

AMMONIA NITROGEN TEST KIT
RANGE: 0-3 mg/L as Ammonia Nitrogen
MODEL NI-8
CAT. NO. 2241-00



TO ENSURE ACCURACY PLEASE READ CAREFULLY BEFORE PROCEEDING.
The sample temperature for this test should be at 20°C for the best results. Warmer samples will cause high results; colder samples will cause low results.

In water containing more than 6 grains per gallon hardness, the formation of solid particles of magnesium hydroxide may tend to obscure the color of the sample. To overcome this problem, add one drop of Rochelle Salt Reagent, Cat. No. 1725-33, to the sample *before* proceeding with Step 2. This reagent is not included as part of the kit, but may be ordered from Hach Company. *See Replacements.*

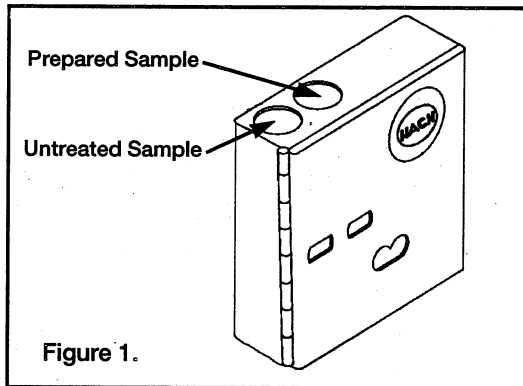
WARNING: The chemicals in this kit may be hazardous to the health and safety of the user if inappropriately handled. Please read all warnings before performing the test and use appropriate safety equipment.

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Due to the color of the Nessler Reagent, a very slight yellow color will be imparted even to pure water. The error is negligible unless very small quantities are being determined. In this case, compensate for the color by adding three drops of Nessler Reagent to some ammonia-free water. Use this as the untreated sample which will be inserted into the left-top opening of the color comparator.

TEST INSTRUCTIONS

1. Fill the two glass sample tubes to the 5-mL mark with the water to be tested.
2. Add three drops of Nessler Reagent to one of the tubes, and swirl to mix. Allow at least 1, but not more than 5 minutes for color development. If ammonia nitrogen is present in the sample a yellow color will develop.
3. Insert the tube of prepared sample into the right top opening of the color comparator (*Prepared Sample Position in Figure 1*).
4. Insert the glass sample tube containing the untreated sample into the left top opening of the comparator. (*Untreated Sample Position in Figure 1*).
5. Hold the comparator up to a light source such as the sky, a window or lamp and view through the two openings in the front. Rotate the disc to obtain a color match. Read the mg/L ammonia nitrogen (N) through the scale window.
6. To express results as mg/L ammonia (NH_3) multiply the mg/L ammonium nitrogen by 1.2. To express results as mg/L ammonium ion (NH_4) multiply the mg/L ammonium nitrogen by 1.3. Note: 1ppm = 1 mg/L.



Replacements

Cat. No.	Description	Unit
21194-32	Nessler Reagent	100 mL MDB*
1854-00	Ammonia Nitrogen Color Disc 0-3 ppm	each
1732-00	Color Comparator	each
46600-04	Color viewing Tube	4/pkg
1731-00	Stopper for color viewing tube	each
1725-33	Rochelle Salt Reagent (not included in kit)	29 mL (1oz) DB**

*Marked Dropping Bottle

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