



Ammonia Nitrogen Test Kit

NI-8 (224100)

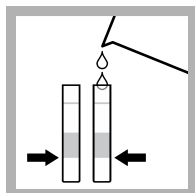
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Test preparation

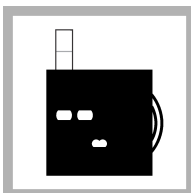
CAUTION: ⚠ *Review the Safety Data Sheets (MSDS/SDS) for the chemicals that are used. Use the recommended personal protective equipment.*

- Put the color disc on the center pin in the color comparator box (numbers to the front).
- Use sunlight or a lamp as a light source to find the color match with the color comparator box.
- Rinse the tubes with sample before the test. Rinse the tubes with deionized water after the test.
- If the color match is between two segments, use the value that is in the middle of the two segments.
- If the color disc becomes wet internally, pull apart the flat plastic sides to open the color disc. Remove the thin inner disc. Dry all parts with a soft cloth. Assemble when fully dry.
- To verify the test accuracy, use a standard solution as the sample.
- The recommended sample temperature is 20 °C. Warmer temperatures cause high results. Colder temperatures cause low results.
- More than 6 gpg hardness causes a white precipitate to develop. To remove the interference, add 1 drop of Rochelle salt reagent to the sample tube before the reagent is added.
- To measure very low quantities of ammonia, add ammonia-free water to one tube. Add 3 drops of the Nessler reagent. Put this tube in the left opening of the color comparator box as the reagent blank.
- To record the test result as mg/L NH_3 , multiply the test result by 1.2. To record the test result as mg/L NH_4^+ , multiply the test result by 1.3.

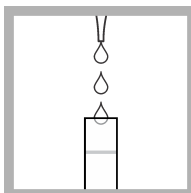
Test procedure—Ammonia-nitrogen (0–3.0 mg/L $\text{NH}_3\text{-N}$)



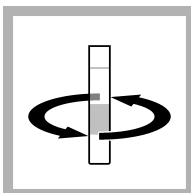
1. Fill two tubes to the first line (5 mL) with sample.



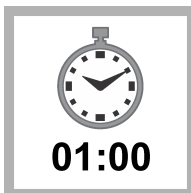
2. Put one tube into the left opening of the color comparator box.



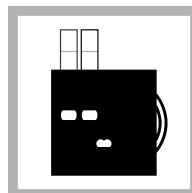
3. Add 3 drops of Nessler reagent to the second tube.



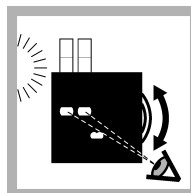
4. Swirl to mix. A yellow color develops.



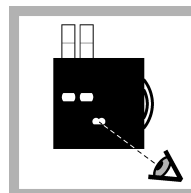
5. Wait 1 minute. Read the result within 5 minutes.



6. Put the second tube into the color comparator box.



7. Hold the color comparator box in front of a light source. Turn the color disc to find the color match.



8. Read the result in mg/L in the scale window.

Replacement items

Description	Unit	Item no.
Nessler reagent	100 mL MDB	2119432
Color disc, ammonia nitrogen, Nessler, 0–3.0 mg/L	each	9262600
Color comparator box	each	173200
Plastic viewing tubes, 18 mm, with caps	4/pkg	4660004

Optional items

Description	Unit	Item no.
Caps for plastic viewing tubes (4660004)	4/pkg	4660014
Water, deionized	500 mL	27249
Glass viewing tubes, glass, 18 mm	6/pkg	173006
Rochelle salt solution	29 mL DB	172533
Stoppers for 18-mm glass tubes and AccuVac Ampuls	6/pkg	173106

