Ammonia Nitrogen (NH_3-N) Test Procedure

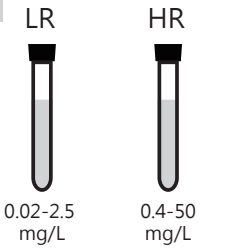
▶ Required Equipment

1. WD 100, Multiparameter Colorimeter
2. Hach, Nitrogen Ammonia Reagent Set
3. Pipette and Pipette Tip
4. Micro Funnel

▶ Inspection Before Test

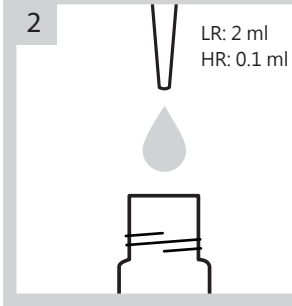
1. Keep the sample completely sealed to prevent ammonia contamination from the air.
2. Mix the sample thoroughly or sample from different portion to repeat the test for improving accuracy.
3. If the sample contains chlorine, add 1 drop of 0.1N sodium thiosulfate to 1L of sample to remove each 0.3 mg/L of chlorine.

1



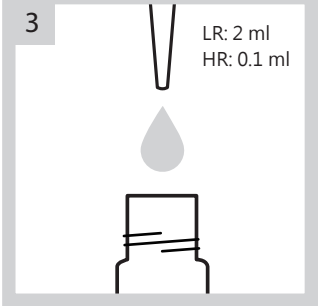
Select the appropriate concentration of reagent according to the NH_3-N concentration of sample.

2



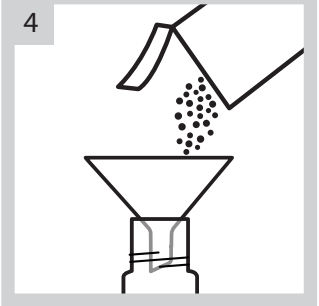
Add pure water to one reagent vial as the blank sample.
Adding volume is as below:
LR: 2 ml, HR: 0.1 ml.

3



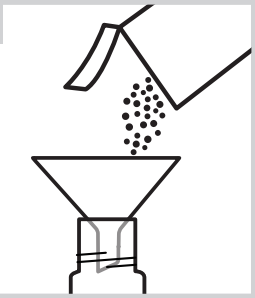
Add sample to another reagent vial as the test sample.
Adding volume is as below:
LR: 2 ml, HR: 0.1 ml.

4



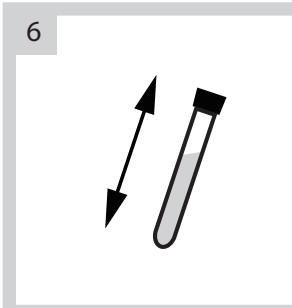
Add one pack of Ammonia Salicylate powder pillow to each vial.

5



Add one pack of Ammonia Cyanurate powder pillow to each vial.

6



Close the vials and shake thoroughly to dissolve the powder.

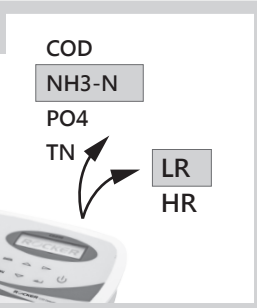
7

Stand for a 20-min reaction.

8

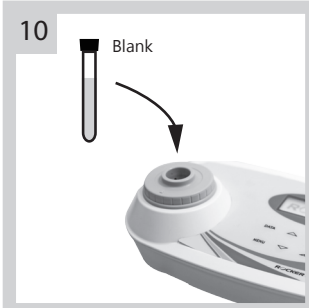
Clean the vial.

9



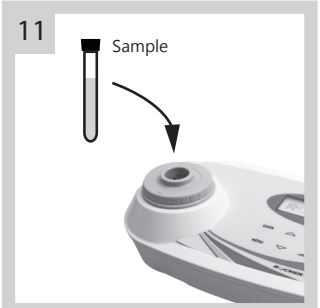
Turn on WD 100 colorimeter, then select test item and concentration range.

10



Insert the blank sample vial into WD 100 colorimeter to start a zero calibration.

11



Insert the test sample vial into WD 100 colorimeter to start a test.

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NH_3-N VALUE

Get NH_3-N concentration