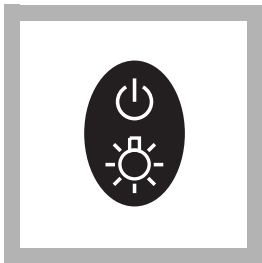


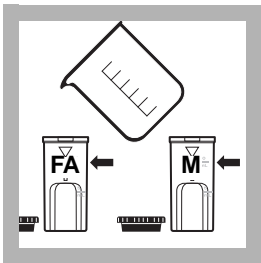
Nitrogen, Free Ammonia and Chloramine (Mono), continued



1. Press the **POWER** key to turn the meter on.

The arrow should indicate the monochloramine channel (Cl_2).

Note: See page 2–4 for information on selecting the correct channel.



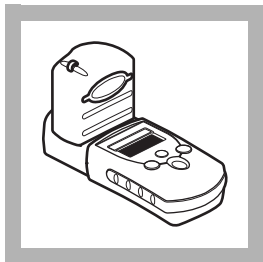
2. Fill two cells with 10 mL of sample.

Label one cell "Free Ammonia" and one cell "Monochloramine".

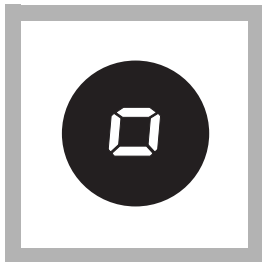


3. Place the cell for Monochloramine measurement into the cell holder.

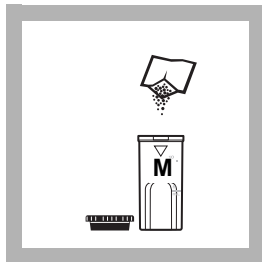
Nitrogen, Free Ammonia and Chloramine (Mono), continued



4. Cover the cell with the instrument cap.

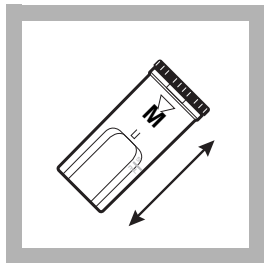


5. Press **ZERO/SCROLL**.
The display will show " - - - - " then "0.00".
Remove the cell from the cell holder.



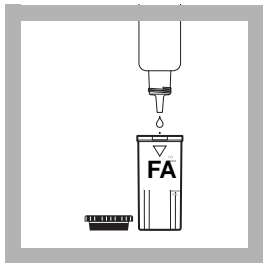
6. Add the contents of one pillow of Monochlor F to the cell for Monochloramine measurement.

Nitrogen, Free Ammonia and Chloramine (Mono), continued



7. Cap the cell and shake for 20 seconds to dissolve the reagent.

A green color will form if monochloramine is present.

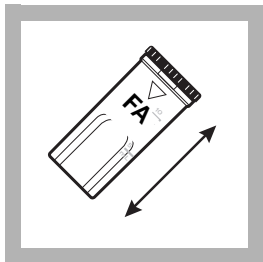


8. Add one drop of Free Ammonia Reagent Solution to the cell for Free Ammonia measurement.



9. Cap the reagent bottle to maintain reagent performance and stability.

Nitrogen, Free Ammonia and Chloramine (Mono), continued



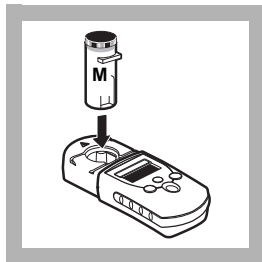
10. Cap the cell and mix.

Note: *If the sample becomes cloudy by the end of the reaction period, pretreat the sample and retest. See [Interferences on page 1–18](#).*



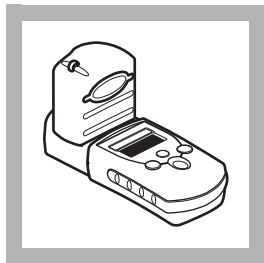
11. Wait five minutes.

Note: *Color development time is dependent on sample temperature. See [Table 1](#) on [page 20](#) for correct times.*



12. Wipe off the sample cell. Place the prepared Monochloramine sample into the cell holder.

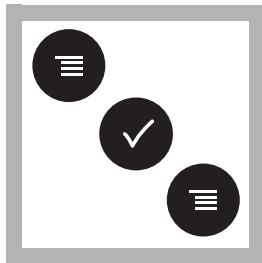
Nitrogen, Free Ammonia and Chloramine (Mono), continued



13. Cover the cell with the instrument cap.

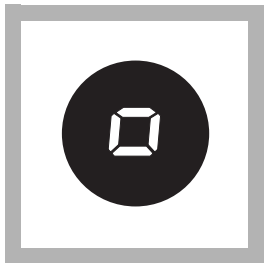


14. Press **READ/ENTER**.
The results are displayed in mg/L Monochloramine (as Cl_2).
Leave the cell in the meter.

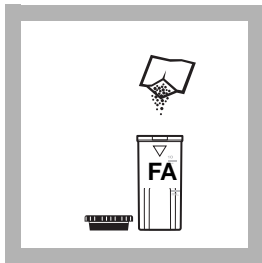


15. Change the channel.
The arrow will indicate the free ammonia channel ($\text{NH}_3\text{-N}$).

Nitrogen, Free Ammonia and Chloramine (Mono), continued

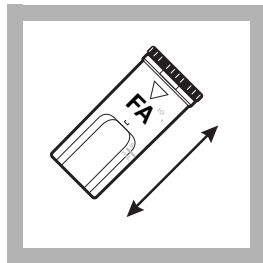


16. With the Monochloramine sample still in the cell holder, press **ZERO/SCROLL**. The display will show 0.00.
Remove the sample cell from the meter.



17. Add the contents of one pillow of Monochlor F to the cell for Free Ammonia measurement.

Note: *The reaction period indicated in step 11 on page 13 must be completed before the addition of Monochlor F to the cell for free ammonia measurement*



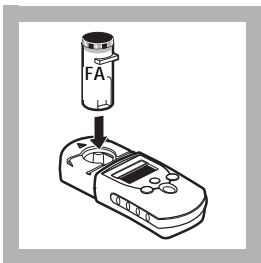
18. Cap and shake for 20 seconds to dissolve the reagent.
A green color will form if ammonia or monochloramine is present.

Nitrogen, Free Ammonia and Chloramine (Mono), continued

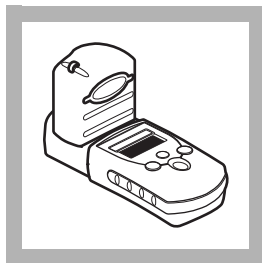


19. Wait 5 minutes.

Note: *Color development depends on sample temperature. See [Table 1](#) on page 1–20 for correct times.*

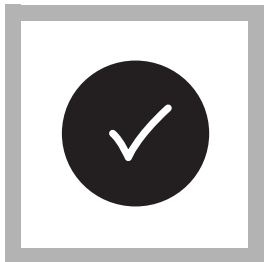


20. Wipe off the sample cell. Place the prepared Free Ammonia sample into the cell holder.

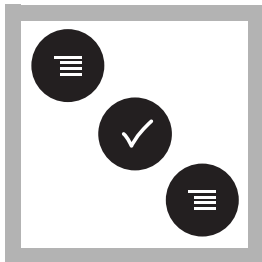


21. Cover the cell with the instrument cover.

Nitrogen, Free Ammonia and Chloramine (Mono), continued



22. Press **READ/ENTER**.
The results are displayed in mg/L free ammonia as nitrogen ($\text{NH}_3\text{-N}$)



23. Return the meter to the chlorine channel for the next measurement.