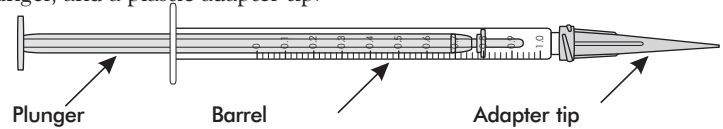


**Direct Reading Titrator
General Instructions**

Code 1649-1

The new Direct Reading Titrator consists of a plastic barrel, a plastic plunger, and a plastic adapter tip.



The adapter tip reduces the size of the drops that are dispensed and increases the precision of the test results. **DO NOT REMOVE THE ADAPTER TIP.**

Instructions

These are general instructions for the use of the Direct Reading Titrator. The titrator in the illustrations is an example. Refer to individual test kit instructions for test procedures and the actual range and increment values.

1.

Fill the titration tube to the specified line with the water sample.

water sample →

An illustration showing a beaker pouring liquid into a graduated titration tube. An arrow points to the liquid in the tube, labeled 'water sample'.

2.

Add the reagents as specified in the instruction for the individual test method.

An illustration showing a small vial with a dropper tip dispensing liquid into the titration tube.

3.

Cap the tube with the special titration tube cap.

Mix by swirling gently.

An illustration showing the titration tube being capped and then swirled.

4.

Depress the plunger of the Titrator.

An illustration showing the plunger being pushed down into the barrel of the titrator.

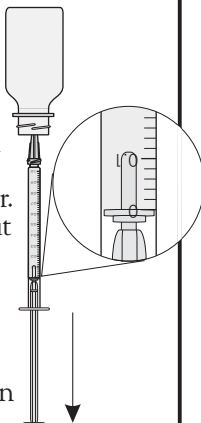
5.

Insert the adapter tip into the special plastic plug in the titrating solution bottle.



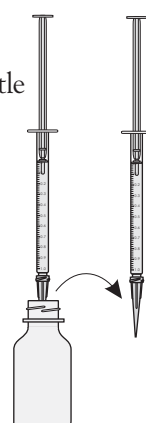
6.

Invert the bottle. Hold the bottle and the Titrator firmly together. Slowly pull out the plunger until the large ring on the plunger is opposite the zero (0) line on the scale.



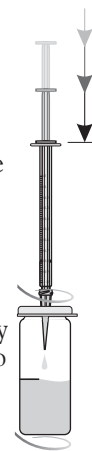
8.

Turn the bottle right side up and remove the Titrator.



9.

Insert the adapter tip into the opening in the titrator tube cap. Slowly depress the plunger to dispense the titrating solution. Gently swirl the tube to mix the solution.



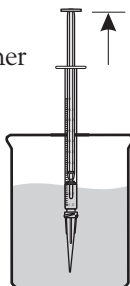
7.

If an air bubble appears in the Titrator barrel or the adapter tip, partially fill the barrel and pump the titration solution back into the inverted reagent bottle to expel the bubble.



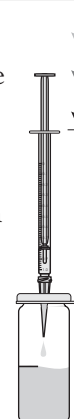
NOTE:

When filling the Titrator from a container without a special plug, submerge the adapter tip below the surface of the solution and pull out the plunger.



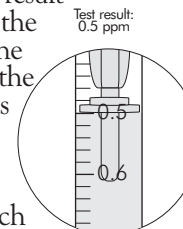
10.

Continue adding the titrating solution until the specified color change occurs. If the color change does not occur when the large ring on the plunger reaches the bottom of the scale, refill the Titrator to the zero line. Continue the titration until the color change occurs.



11.

Read the test result directly from the scale where the large ring on the Titrator barrel meets the Titrator barrel. If the Titrator was refilled to reach the final color change, add the total amounts of titrant used to determine the final test result.



12.

If no additional tests are to be made, discard the remaining titrating solution in the Titrator. Do not return the titrating solution to the reagent bottle. Thoroughly rinse the titration tube and the Titrator. Do not remove the plunger or the adapter tip from the Titrator.