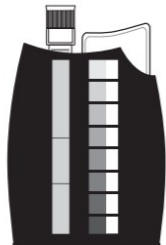


## pH Test Procedure

### USE OF THE OCTA-SLIDE 2 VIEWER



The Octa-Slide 2 Viewer should be held so non-direct light enters through the back of the Viewer. Insert the Octa-Slide 2 Bar into the Viewer. Insert the reacted sample into the top of the Viewer. Match the color of the reaction to the color standards.

**REMINDER:** Check expiration dates on chemicals.

**\*WARNING:** Reagents marked with an \* are considered to be potential health hazards.

### PROCEDURE

1



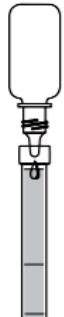
Insert Wide Range pH Octa-Slide 2 Bar (2193-01 or 2196-01) into the Octa-Slide 2 Viewer (1101).

2



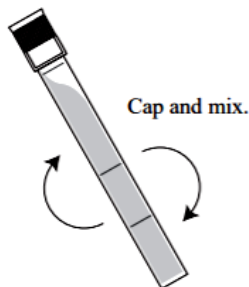
Fill a test tube (0106) to the 10 mL line with sample water.

3



Add 10 drops of \*Wide Range pH Indicator (2218).

4



Cap and mix.

5



Insert test tube into Octa-Slide 2 Viewer (1101).

6



Match sample color to a color standard. Record as pH.

## Salinity Test Procedure—Refractometer

The instrument measures the refractive index of the sample and displays the result in parts per thousand ( $^{\circ}/_{00}$ ) and specific gravity ( $d^{20}_{20}$ ).

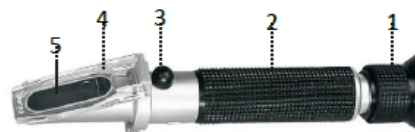
### 1. Zero Adjustment

← Calibrate refractometer EACH time it is used.

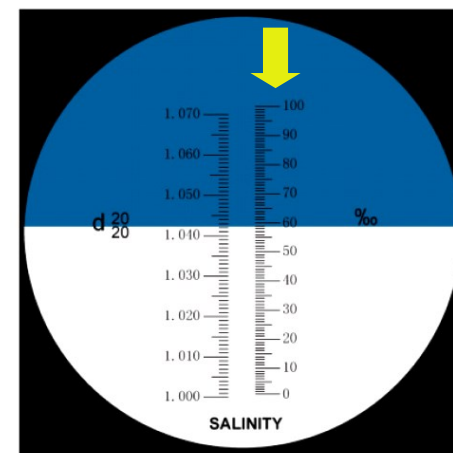
Cover the prism with a few drops of distilled water from the included vial. Close the cover plate and rotate the adjusting screw so that the light/dark boundary line (known as the shadow-line) evens up with the zero line. After the zero adjustment, clean the prism with soft cloth.

### 2. Sample Preparation and Measurement Readings

To take a reading, place a few drops of a sample liquid on the measurement prism. Ensure that enough solution is added to the prism in order to cover the entire prism. Close the prism so that the liquid spreads across the entire surface of the prism without air bubbles or dry spots (see diagrams below). Allow the sample to remain on the prism for approximately 30 seconds.



While holding the instrument under a light source, look through the eyepiece. The salinity concentration is determined by the intersection of the boundary of the light and dark fields (known as the shadow-line) on the printed scale. The left side of the scale indicates the specific gravity and the right side parts per thousand. If the scale appears out of focus, the eyepiece may be adjusted by rotating the knurled portion.



The instrument also features an eye guard to prevent stray light from entering the eyepiece and causing reflections.

It may be necessary to adjust the position of the light source to maximize the contrast of the shadow-line. Under normal conditions, optimal contrast is obtained by holding the instrument underneath and perpendicular to a light source.

Once a reading has been taken, wipe dry with a clean cloth (do not wash or rinse) and place the instrument in the supplied plastic case. Store the instrument in a safe, dry environment.

### Description

1. Eyepiece
2. Mirror tube
3. Adjust screw
4. Cover plate
5. Prism

