

SLIDE™ COMPARATOR SYSTEM GENERAL INSTRUCTIONS

Taylor Slide™ comparators offer systems for colorimetrically determining solute levels in industrial, natural, and recreational waters. In each test, a liquid sample is treated with reagents causing a color to develop. The treated sample is then placed in the comparator base and compared to the liquid-color standards in the Slide. A color match is made and the concentration of the substance is read from the values on the Slide.

The unique Taylor colorimetric system compensates for cloudy or colored samples by using three cells. Two untreated samples are positioned on both sides of the treated sample, providing a more accurate color match.

To ensure accurate results, the following should be observed:

1. **Use the proper test cell.** There are two different test cells used in the Slide comparator system: the 11.5 mL test cell (#4024), used in most tests; and the 5 mL test cell (#4025), used in tests requiring shorter viewpaths. Both test cells are used in the Enslow Base (#9189). Glass 5 mL test tubes (#4023) are used in the pH base (#9190).
2. **Always place the test cells with the frosted side facing the operator.** This is required for proper light diffusion.
3. **Use three test cells (test tubes) for each test.** Two should be filled to the mark with the untreated sample and placed on both sides of the center compartment of the comparator base. The third test cell (test tube) is used for treating the sample with reagents and is placed in the center compartment of the comparator base.
4. **Align the appropriate Slide on the comparator base for a color match.** To determine the concentration of solute in the sample, move the Slide until a color match is obtained. The Slide is in proper alignment for a color match when a white line on the Slide is directly above the white line on the comparator base.
5. **Use a proper light source.** Hold the comparator system up to natural daylight or, preferably, use a daylight simulator (#9199). Artificial light (incandescent or fluorescent) should not be used.

IMPORTANT

1. Guidebook (#2004B) amplifies these instructions.
2. Keep test kit out of reach of children.
3. Read precautions on all labels.
4. Store test kit in cool, dark place.
5. Replace reagents at least once each year.
6. Rinse test cells (test tubes) before and after each test.
7. Obtain samples 18" (45 cm) below water surface.
8. Hold dropper bottles vertically when dispensing reagents.
9. Do not dispose of solutions in pool or spa.
10. Replace caps on all reagents after use.

