

## Hydrogen Peroxide Titrets® 2.0 - 20 percent (%)

### Test Procedure

1. Measure 0.25 mL of sample using the calibrated dropper and dilute to 50 mL with distilled water in the supplied sample cup.

2. Gently snap the tip of the glass ampoule at the black snap ring (fig. 1).

**NOTE:** When the tip is snapped, the flexible tubing will remain in place on the tapered neck of the ampoule.

3. Lift the control bar and insert the Titret assembly into the Titrettor (fig. 2).

**NOTE:** The rigid sample pipe will extend approximately 1.5 inches beyond the body of the Titrettor.

4. Hold the Titrettor with the sample pipe in the sample and press the control bar firmly, but briefly, to pull in a small amount of sample. The contents will turn a **GREEN** color (fig. 3).

**NOTE:** NEVER press the control bar unless the sample pipe is immersed in the sample.

5. With the sample pipe in the sample, press the control bar again briefly to allow another small amount of sample to be drawn into the ampoule.

6. After each addition, rock the entire assembly to mix the contents of the ampoule. Watch for a color change from **GREEN through BLUE to BROWNISH ORANGE**.

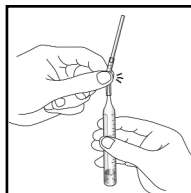


Figure 1

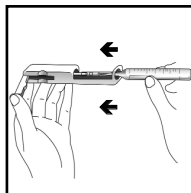


Figure 2

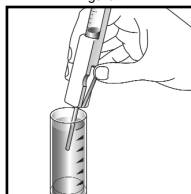


Figure 3

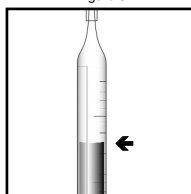


Figure 4

7. Repeat steps 5 and 6 until a permanent color change occurs.
8. When the color of the liquid in the ampoule changes to **BROWNISH ORANGE**, remove the ampoule from the Titrettor. Hold the ampoule in a vertical position and read the scale opposite the liquid level (fig 4). Results are expressed in percent (%) hydrogen peroxide as H<sub>2</sub>O<sub>2</sub>.

### Test Method

The Hydrogen Peroxide Titrets®<sup>1</sup> method employs a ceric sulfate titrant and a ferroin endpoint indicator.<sup>2</sup> Results are expressed as hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>).

1. Titrets is a registered trademark of CHEMetrics, Inc. U.S. Patent No. 4,332,769
2. Developed by CHEMetrics, Inc.

### Safety Information

Read MSDS before performing this test procedure. Wear safety glasses.

### Reorder Information

Cat. No.

**Test Kit, complete** ..... **K-5530**

*Kits are available for hydrogen peroxide analysis at other levels.*



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