

## Formaldehyde Titrets® 0.5 - 5.0 percent (%)

### Test Procedure

1. Fill the sample cup to the 25 mL mark with your sample (fig. 1).

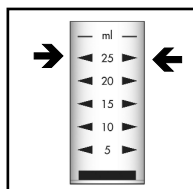


Figure 1

2. Add 5 drops of A-4200 Indicator Solu-tion to the sample (fig. 2). Stir briefly to mix the contents of the sample cup.

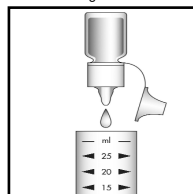


Figure 2

3. Gently snap the tip of the glass ampoule at the black snap ring (fig. 3).

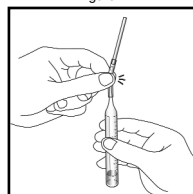


Figure 3

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

4. Lift the control bar and insert the Titret assembly into the Titrettor (fig. 4).

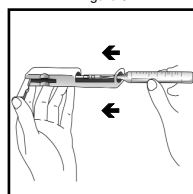


Figure 4

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

5. 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 (fig. 5).

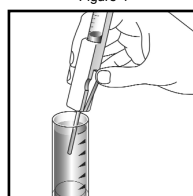


Figure 5

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

6. 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.

7. After each addition, rock the entire assembly to mix the contents of the ampoule. Watch for a color change from **COLORLESS to BRIGHT BLUE**.

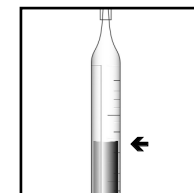


Figure 6

8. Repeat steps 6 and 7 until a permanent color change occurs.

9. When the color of the liquid in the ampoule changes to **BLUE**, remove the ampoule from the Titrettor. Hold the ampoule in a vertical position and read the scale opposite the liquid level (fig. 6).

10. Multiply scale units on the Titret ampoule by 0.5 for test results in percent (%) formaldehyde.

### Test Method

The Formaldehyde Titrets®<sup>1</sup> test method employs a titrimetric chemistry using sulfuric acid and sodium sulfite.<sup>2</sup> The endpoint indicator is thymolphthalein. Results are expressed in percent (%) formaldehyde.

1. Titrets is a registered trademark of CHEMetrics, Inc. U.S. Patent No. 4,332,769
2. ASTM D 2194 - 79, Concentration of Formaldehyde Solutions

### Safety Information

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

### Reorder Information

### Cat. No.

**Test Kit, complete** ..... **K-4250**

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Oct. 07, Rev. 5