Hydrazine VACUettes® Kit

K-5005D/R-5005D: 0 - 12.5 ppm
K-5005C/R-5005C: 0 - 500 ppm

Test Procedure

1. Fill the dilutor snapper cup to the -ml- mark with **distilled water** (fig. 1).
2. Fill the micro-test tube approximately halfway with the sample to be tested (fig. 2).
3. Place a VACUette tip firmly a on to the ampoule tip.
4. Holding the VACUette almost horizontally, touch the tip to the contents of the micro-test tube (fig. 2).
   NOTE: The capillary tip will fill completely with sample.
5. **Required for R-5005D only:** Pull the VACUette into a vertical position. A small portion of the collected sample should fall into the sleeve of the VACUette tip (fig. 3).
   NOTE: If none of the sample falls **immediately,** tap lightly on the shoulder of the ampoule.
6. Place the VACUette between the vertical tip guides on the inside of the dilutor snapper cup. Snap the ampoule tip. The ampoule will fill leaving a bubble for mixing (fig. 4).
7. To mix the ampoule, invert it several times, allowing the bubble to travel from end to end.
8. Dry the ampoule. Obtain a test result **10 minutes** after snapping the tip.

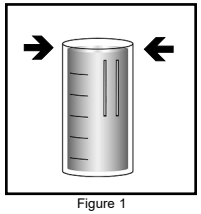

Figure 1

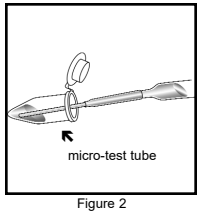

Figure 2

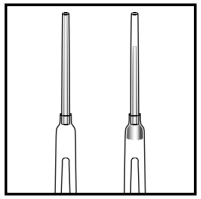

Figure 3

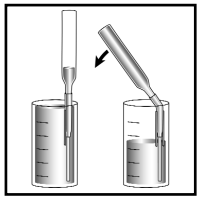

Figure 4

9. Obtain a test result by placing the ampoule, flat end first, into the comparator. Hold the comparator up toward a source of light and view from the bottom. Rotate the comparator until the best color match is found (fig 5).

Figure 5

Test Method

The Hydrazine VACUettes®[1] test kit employs the PDMAB chemistry.[2,3] In an acidic solution, hydrazine reacts with PDMAB (p-dimethylaminobenzaldehyde) to form a yellow colored complex in direct proportion to the hydrazine concentration.

1. VACUettes is a registered trademark of AquaPhoenix Scientific, LLC U.S. Patent Nos. 4,537,747 & 4,596,780
2. L. C. Thomas and G. J. Chamberlin, Colorimetric Chemical Analytical Methods. 8th ed., p. 195, Method I (1974)
3. ASTM D 1385 - 07, Hydrazine in Water

Safety Information

Read SDS before performing this test procedure. Wear safety glasses and protective gloves.

CHEMetrics®
By AquaPhoenix Scientific

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