Chromate VACUettes® Kit

K-2810D/R-2810D: 0 - 30 & 30 - 300 ppm **K-2810A/R-2810A:** 0 - 60 & 60 - 600 ppm **K-2810B/R-2810B:** 0 - 120 & 120 - 1200 ppm **K-2810C/R-2810C:** 0 - 1200 & 1200 - 12,000 ppm

Safety Information

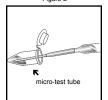
Read MSDS (available at www.chemetrics.com) before performing this test procedure. Wear safety glasses and protective gloves.

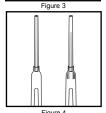
Test Procedure

- 1. Fill the dilutor snapper cup to the -ml- mark with **distilled water** (fig. 1).
- Add 5 drops of A-2800 Acidifier Solution (fig. 2). Cap the cup and shake it to mix the contents well.
- 3. Fill the micro-test tube approximately halfway with the sample to be tested (fig. 3).
- 4. Make sure that the VACUette tip is firmly attached to the ampoule tip.
- 5. Holding the VACUette almost horizontally, touch the tip to the contents of the micro-test tube (fig. 3).
 - NOTE: The capillary tip will fill completely with sample.
- Required for R-2810D 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. 4).
 NOTE: If none of the sample falls immediately, tap lightly on the shoulder of the ampoule.
- 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. 5).



Figure 1





- 8. To mix the ampoule, invert it several times, allowing the bubble to travel from end to end.
- Dry the ampoule and wait 1 minute for color development.
- 10. Obtain a test result using the appropriate comparator.
 - a. Low Range Comparator (fig. 6): Place 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.
 - High Range Comparator (fig. 7):
 Place the ampoule between the color standards until the best color match is found.

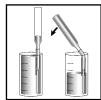
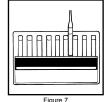






Figure 6



Test Method

The Chromate VACUettes®1 test kit employs the diphenylcar-bazide chemistry. 2,3 In an acidic solution, hexavalent chromium reacts with diphenylcarbazide to form a red-violet colored complex in direct proportion to the hexavalent chromium concentration. Test results are expressed as chromate (CrO_4)

- VACUettes is a registered trademark of CHEMetrics, Inc. U.S. Patent Nos. 4,537,747 & 4,596,780
- 2. APHA Standard Methods, 21st ed., method 3500-Cr B (2005)
- 3. ASTM D 1687 02, Chromium in Water, Test Method A

Visit www.chemetrics.com to view product demonstration videos.

Always follow the test procedure above to perform a test.



www.chemetrics.com 4295 Catlett Road, Midland, VA 22728 U.S.A. Phone: (800) 356-3072; Fax: (540) 788-4856 E-Mail: orders@chemetrics.com Jan. 13. Rev. 8