

# Nitrite VACUettes®

## 0 - 2200 ppm

### Safety Information

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

### Test Procedure

1. Fill the dilutor snapper cup to the **top edge** with **nitrite free water**.
2. Fill the micro-test tube approximately halfway with **your sample** (fig 1).
3. Make sure that the VACUette tip is firmly attached to the ampoule tip.
4. Holding the VACUette almost horizontally, touch the tip to the contents of the micro-test tube (fig 1).

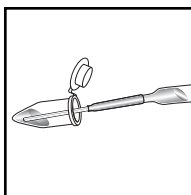


Figure 1

- NOTE:** The capillary tip will fill completely with sample.
5. Place the VACUette in the dilutor snapper cup and snap the tip (fig 2). The ampoule will fill leaving a bubble to facilitate mixing.
  6. Mix the contents of the ampoule by inverting it several times, allowing the bubble to travel from end to end. Dry the exterior of the ampoule and wait **10 minutes** for color development.

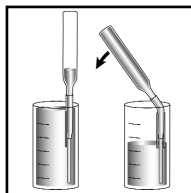


Figure 2

7. Hold the comparator in a nearly horizontal position while standing directly beneath a bright source of light. Place the VACUette ampoule between the color standards moving it from left to right along the comparator until the best color match is found (fig 3). If the color of the VACUette ampoule is between two color standards, a concentration estimate can be made.

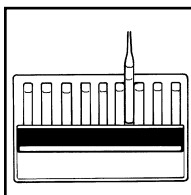


Figure 3

**NOTE:** To convert to ppm (mg/Liter) nitrite as NO<sub>2</sub>, simply multiply test results by 3.3.

### Test Method

The Nitrite VACUettes®<sup>1</sup> test method employs the azo dye formation method.<sup>2</sup> In an acidic solution, nitrite diazotizes with a primary aromatic amine and then couples with another organic molecule to produce a highly colored azo dye. The resulting pink-orange color is proportional to the nitrite concentration in the sample. Results are expressed in ppm (mg/Liter) NO<sub>2</sub>-N.

1. VACUettes is a registered trademark of CHEMetrics, Inc. U.S. Patent Nos. 4,537,747 & 4,596,780
2. APHA Standard Methods, 20th ed., p. 4-112, method 4500-NO<sub>2</sub>-B (1998)

### Reorder Information

### Cat. No.

<i>Test Kit, complete</i> .....	<i>K-7004C</i>
<i>Refill, 30 VACUette ampoules</i> .....	<i>R-7002C</i>
<i>Dilutor Snapper Cup, 25 mL, package of six</i> .....	<i>A-0018</i>
<i>Micro-Test Tube, package of ten</i> .....	<i>A-0015</i>
<i>Comparator, 0 - 2200 ppm</i> .....	<i>C-7004C</i>



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