Nitrite VACUettes® Kit

K-7004B/R-7002B: 0 - 300 ppm N

K-7004C/R-7002C: 0 - 3000 ppm N

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 on to the ampoule tip.
4. Holding the VACUette almost horizontally, touch the tip to the contents of the microtest tube (fig. 2).
   NOTE: The capillary tip will fill completely with sample.
5. 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. 3).
6. To mix the ampoule, invert it several times, allowing the bubble to travel from end to end.
7. Dry the ampoule. Obtain a test result **10 minutes** after snapping the tip.
8. Obtain a test result by placing the ampoule between the color standards until the best color match is found (fig 4).
   NOTE: To convert to ppm nitrite (NO_2), multiply test result by 3.3.

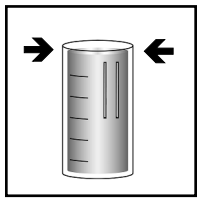

Figure 1

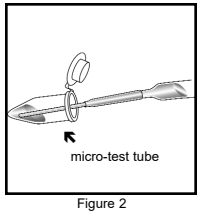

Figure 2

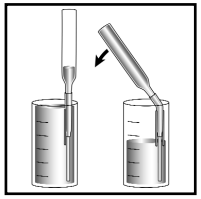

Figure 3

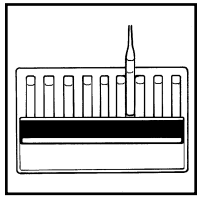

Figure 4

Test Method

The Nitrite VACUettes®[1] test kit employs the azo dye formation method.[2,3] 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.

1. VACUettes is a registered trademark of AquaPhoenix Scientific, LLC U.S. Patent Nos. 4,537,747 & 4,596,780
2. APHA Standard Methods, 23rd ed., Method 4500-NO_2^- B - 2000
3. EPA Methods for Chemical Analysis of Water and Wastes, Method 354.1 (1983).

Safety Information

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

CHEMetrics®
By AquaPhoenix Scientific

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