Manganese CHEMets® Kit

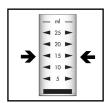
K-6502/R-6502: 0 - 2 ppm

Safety Information

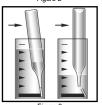
Read SDS before performing this test procedure. Wear safety glasses and protective gloves.

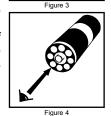
Test Procedure

- 1. Fill the sample cup to the 15 mL mark with the sample to be tested (fig. 1).
- 2. Add 3 drops of S-6502 Activator Solution (fig. 2). Stir to mix the contents of the cup.
- 3. Place the CHEMet ampoule, tip first, into the sample cup. Snap the tip. The ampoule will fill leaving a bubble for mixing (fig. 3).
- To mix the ampoule, invert it several times, allowing the bubble to travel from end to end
- 5. Dry the ampoule. Obtain a test result **1 minute** after snapping the tip.
- 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. 4).









Test Method

The Manganese CHEMets^{®1} test method employs the periodate oxidation chemistry.² Soluble manganous compounds are oxidized by periodate in a slightly acidic solution to form permanganate ion. The resulting pink color is proportional to the manganese (Mn) concentration.

Permanganate (MnO₄-) develops approximately 25% more color with this reagent than other forms of manganese, causing a high bias. If the sample is known to contain manganese in the form of permanganate only, multiplying test results by 0.8 will improve the accuracy of the results.

- CHEMets is a registered trademark of AquaPhoenix Scientific, LLC U.S. Patent No. 3.634.038
- 2. APHA Standard Methods, 14th ed., Method 314C (1975).

