

# Hydrazine HR CHEMets® Kit

**K-5020C/R-5005/A-0171:**  
0 - 500 ppm

## Test Procedure

1. Place a pipette tip firmly onto the end of the MiniPet<sup>®4</sup> (fig. 1).

**NOTE:** Use a fresh pipette tip for each test.

2. Depress the plunger on the minipet.
3. Immerse the tip in the sample to be tested and release the plunger. A portion of the sample will be drawn into the tip (fig. 2).

**NOTE:** Do not touch the side or bottom of the sample container with the tip during sampling.

4. Hold the minipet over the sample cup, and depress the plunger to dispense sample (fig. 3).
5. Dilute the contents of the sample cup to the **25 ml mark with distilled water** (fig. 4).

6. Place the CHEMet ampoule, tip first, into the sample cup. Snap the tip. The ampoule will fill leaving a bubble for mixing (fig. 5).

7. To mix the ampoule, invert it several times, allowing the bubble to travel from end to end.

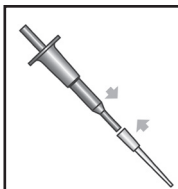


Figure 1

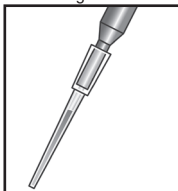


Figure 2

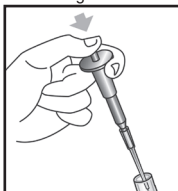


Figure 3

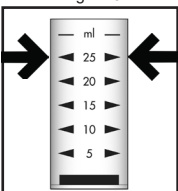


Figure 4

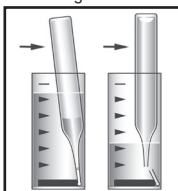


Figure 5

8. Dry the ampoule. Obtain a test result **10 minutes** after snapping the tip.
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. 6).



Figure 6

## Test Method

The Hydrazine CHEMets<sup>®1</sup> test method employs the PDMAB chemistry.<sup>2,3</sup> In an acidic solution, hydrazine reacts with PDMAB (p-dimethyl-aminobenzaldehyde) to form a yellow colored complex in direct proportion to the hydrazine concentration.

1. CHEMets is a registered trademark of AquaPhoenix Scientific, LLC U.S. Patent No. 3,634,038
2. L. C. Thomas and G. J. Chamberlin, *Colorimetric Chemical Analytical Methods*, 8<sup>th</sup> ed., p. 195, Method I (1974)
3. ASTM D 1385 - 07, *Hydrazine in Water*
4. Minipet is a registered trademark of Tricontinent Scientific, Inc.

## Safety Information

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

