CHLORINE DIOXIDE - DPD TABLET
1200 COLORIMETER, 0-7 ppm
CODE 3671-01

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<td>15 mL</td>
<td>Glycine Solution</td>
<td>6811-E</td>
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<td>Colorimeter Tubes, w/caps</td>
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<td>1200 Colorimeter for Chlorine Dioxide</td>
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*WARNING: Reagents marked with an * are considered to be potential health hazards. To view or print a Material Safety Data Sheet (MSDS) for these reagents go to www.lamotte.com. To obtain a printed copy, contact LaMotte by e-mail, phone or fax.

To order individual reagents or test kit components, use the specified code number.

INTRODUCTION

Chlorine dioxide is used as a substitute for and an adjunct to chlorine in water treatment. It is better than chlorine in eliminating taste and odor in certain cases. Chlorine dioxide, unlike chlorine, does not produce carcinogenic chlorinated organic compounds when reacted with organic materials. A disadvantage is the higher cost of producing chlorine dioxide compared to chlorine.
Read the 1200 Colorimeter Manual before proceeding. Carefully wipe tubes dry before inserting into the colorimeter chamber.

**CHLORINE DIOXIDE**

1. Fill the Water Sample Collecting Bottle (0688) with sample water. This will be used to dispense sample water for the tests.

2. Rinse and fill a colorimeter tube (0290) to the 10 mL line with sample water. Cap and wipe dry.

3. Insert the tube into the chamber, being sure to align the index line with the arrow on the meter. Close the lid. This tube is the blank or zero.

4. Push the READ button to turn the meter on. Press the ZERO button and hold it for 2 seconds until BLA is displayed. Release the button to take a zero reading (0.00 ppm).

5. Remove the tube. Add 5 drops of Glycine Solution (6811).

6. Add one *Chlorine DPD#1 IG Tablet (6903A).

7. Cap tube and shake for 10 seconds. Invert slowly 5 times. Make reading within 30 seconds.

8. Align the index line with the arrow on the meter, insert tube into chamber. Close the lid. Push the READ button. Record results as ppm Chlorine Dioxide.
NOTE: If reading displays $Er\hat{2}$, repeat procedure on diluted sample, and multiply the result by the appropriate dilution factor. See 1200 Colorimeter Instruction Manual for procedure.

CAUTION: DO NOT leave reacted DPD samples in test tubes (0290). Discard sample and thoroughly rinse tubes. If allowed to remain, DPD will stain tubes, significantly impairing the operation of the 1200 Colorimeter. If necessary, acid wash, and vigorously clean glassware with test tube brush and detergent.

**CHLORINE DIOXIDE TEST METHOD SPECIFICATIONS**

**APPLICATION**
Drinking and pool waters; domestic and industrial wastewater.

**RANGE**
0 to 7.0 ppm Chlorine Dioxide

**METHOD**
Chlorine dioxide reacts with DPD to form a red color in proportion to the concentration.

**HANDLING & PRESERVATION**
Test as soon as possible to avoid loss of chlorine dioxide.

**INTERFERENCES**
Chlorine interference is eliminated by the addition of glycine to the sample before the indicator.