CHLORINE - pH KIT

OCTA-SLIDE 2

CODE 6980-01

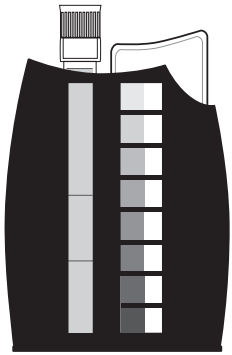
QUANTITY	CONTENTS	CODE
200	Chlorine DPD #1R Tablets	6999A-J
100	Chlorine DPD #2R Tablets	6904A-J
200	Chlorine DPD #3R Tablets	6905A-J
100	Chlorine DPD #4R Tablets	6899A-J
200	Phenol Red Tablets	6915A-J
6	Test Tubes, 2.5-5-10 mL, plastic, w/caps	0106
1	Chlorine DPD Octa-Slide 2 Bar, 0.1-1.0 ppm	3405-01
1	Chlorine DPD Octa-Slide 2 Bar, 1.0-6.0 ppm	3404-01
1	Phenol Red Octa-Slide 2 Bar, pH 6.8-8.2	3403-01
1	Octa-Slide 2 Viewer	1101

*WARNING: Reagents marked with an * are considered to be potential health hazards. To view or print a Safety Data Sheet (SDS) for these reagents go to www.lamotte.com. Search for the four digit reagent code number listed on the reagent label, in the contents list or in the test procedures. Omit any letter that follows or precedes the four digit code number. For example, if the code is 4450WT-H, search 4450. To obtain a printed copy, contact LaMotte by email, phone or fax.

Emergency information for all LaMotte reagents is available from Chem-Tel: (US, 1-800-255-3924) (International, call collect, 813-248-0585).

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

USE OF THE OCTA-SLIDE 2 VIEWER



The Octa-Slide 2 Viewer should be held so non-direct light enters through the back of the Viewer. Slide the Octa-Slide 2 Bar into the Viewer. Insert the reacted sample into the top of the Viewer. Match the color of the reaction to the color standards.

PROCEDURE 1: FREE AVAILABLE CHLORINE, MONOCHLORAMINE, DICHLORAMINE & TOTAL RESIDUAL CHLORINE

FREE AVAILABLE CHLORINE

1. Insert the Chlorine Octa-Slide 2 Bar, 0.1-1.0 ppm (3405-01) or Chlorine Octa-Slide 2 Bar, 1.0-6.0 ppm (3404-01) into the Octa-Slide 2 Viewer (1101).
2. Rinse the test tube (0106) with sample water. Fill to the 5 mL line with sample water.
3. Add one Chlorine DPD #1R Tablet (6999A). Cap the test tube and mix until tablet disintegrates.
4. Immediately insert the tube into the Octa-Slide 2 Viewer (1101). Match sample color to a color standard. Color matching should be completed within one minute from the addition of the Chlorine DPD #1R Tablet. This is the Free Available Chlorine concentration of the test sample. Record as Reading A.
5. Retain this reacted sample for the Monochloramine Determination.

MONOCHLORAMINE

6. Insert the Chlorine Octa-Slide 2 Bar, 0.1-1.0 ppm (3405-01) or Chlorine Octa-Slide 2 Bar, 1.0-6.0 ppm (3404-01) into the Octa-Slide 2 Viewer (1101).
7. To the test sample from Step 5 above, add one Chlorine DPD #2R Tablet (6904A). Cap the test tube and mix until tablet disintegrates.
8. Immediately insert the tube into the Octa-Slide 2 Viewer (1101). Match sample color to a color standard. Record as Reading B. Any increase in color over Reading A is due to Monochloramine.

Reading B - Reading A = Monochloramine (ppm)

9. Retain this reacted sample for the Dichloramine determination.

DICHLORAMINE & TOTAL RESIDUAL CHLORINE

10. Insert the Chlorine Octa-Slide 2 Bar, 0.1-1.0 ppm (3405-01) or Chlorine Octa-Slide 2 Bar, 1.0-6.0 ppm (3404-01) into the Octa-Slide 2 Viewer (1101).
11. To the test sample from Step 9 above, add one Chlorine DPD #3R Tablet (6905A). Cap the test tube and mix until tablet disintegrates.
12. Immediately insert the tube into the Octa-Slide 2 Viewer (1101). Match sample color to a color standard. Record as Reading C. The increase in color over Reading B is due to Dichloramine.

Reading C - Reading B = Dichloramine (ppm)

13. Reading C also represents the Total Residual Chlorine content.

PROCEDURE 2: FREE AVAILABLE CHLORINE, COMBINED CHLORINE & TOTAL RESIDUAL CHLORINE

FREE AVAILABLE CHLORINE

1. Follow Steps 1 through 5 under Procedure 1. This is Reading A. Retain the reacted sample for the Combined Chlorine determination.

COMBINED CHLORINE & TOTAL RESIDUAL CHLORINE

2. Insert the Chlorine Octa-Slide 2 Bar, 0.1-1.0 ppm (3405-01) or Chlorine Octa-Slide 2 Bar, 1.0-6.0 ppm (3404-01) into the Octa-Slide 2 Viewer (1101).
3. To the test sample from Step 1 above, add one Chlorine DPD #3R Tablet (6905A). Cap and mix until tablet disintegrates.
4. Immediately insert the tube into the Octa-Slide 2 Viewer. Match sample color to a color standard. Record as Reading C. Any increase in color over Reading A is due to Combined Chlorine (Monochloramine plus Dichloramine).

Reading C - Reading A = Combined Chlorine (ppm)

5. Reading C also represents the Total Residual Chlorine content.

PROCEDURE 3: TOTAL RESIDUAL CHLORINE

The Chlorine DPD #4R Tablet provides a one-step determination for Total Residual Chlorine and is used where it is not necessary to distinguish the separate Chlorine fractions.

1. Insert the Chlorine Octa-Slide 2 Bar, 0.1-1.0 ppm (3405-01) or Chlorine Octa-Slide 2 Bar, 1.0-6.0 ppm (3404-01) into the Octa-Slide 2 Viewer (1101).
2. Rinse the test tube (0106) with sample water. Fill to the 5mL line with sample water.
3. Add one Chlorine DPD #4R Tablet (6899A). Cap and mix until tablet disintegrates.
4. Immediately insert the tube into the Octa-Slide 2 Viewer. Match sample color to a color standard. Record as ppm Total Residual Chlorine.

PROCEDURE 4: BROMINE & IODINE

Bromine and Iodine may be determined by following the Free Available Chlorine test procedure and multiplying the comparator reading by the factors given below.

1. Follow Steps 1 through 4 under Procedure 1.
2. To determine parts per million Bromine, multiply the comparator reading from Step 4 by 2.2.

ppm Free Available Chlorine x 2.2 = ppm Bromine

3. To determine parts per million Iodine, multiply the comparator reading from Step 4 by 3.5. ppm

ppm Free Available Chlorine x 3.5 = ppm Iodine

PROCEDURE 5: pH

1. Insert Phenol Red Octa-Slide 2 Bar (3403-01) into the Octa-Slide 2 Viewer (1101).
2. Rinse the test tube (0106) with sample water. Fill to the 10 mL line with sample water.
3. Add one Phenol Red Tablet (6915A). Cap and mix until tablet disintegrates.
4. Insert test tube into Octa-Slide 2 Viewer.
5. Match sample color to a color standard. Record as pH.

LaMOTTE COMPANY
Helping People Solve Analytical Challenges
PO Box 329 · Chestertown · Maryland · 21620 · USA
800-344-3100 · 410-778-3100 (Outside USA) · Fax 410-778-6394
Visit us on the web at www.lamotte.com

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