CHLORINE pH KIT

OCTA-SLIDE 2

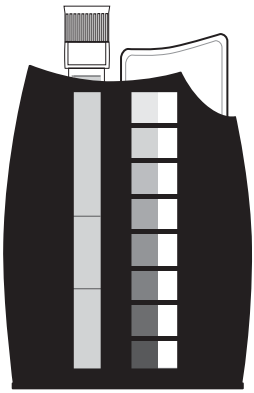
CODE 6980-01

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 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.

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. Insert the reacted sample into the top of the Viewer. Slide the Octa-Slide 2 Bar into the Viewer and match the color of the reaction to the color standards.

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

FREE AVAILABLE CHLORINE

1. Rinse the test tube (0106) with sample water. Fill to the 5 mL line with sample water.
2. Add one *Chlorine DPD #1R Tablet (6999A). Cap the test tube and mix until tablet disintegrates.
3. 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).
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 test sample for the Monochloramine Determination.

MONOCHLORAMINE

6. To the test sample from Step 5 above, add one Chlorine DPD #2R Tablet (6904A). Cap the test tube and mix until tablet disintegrates.
7. 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). Record as Reading B. Any increase in color over Reading A is due to Monochloramine.
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 test sample for the Dichloramine determination.

DICHLORAMINE & TOTAL RESIDUAL CHLORINE

10. To the test sample from Step 9 above, add one *Chlorine DPD #3R Tablet (6905A). Cap the test tube and mix until tablet disintegrates.
11. 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).
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 test sample for the Combined Chlorine determination.

COMBINED CHLORINE & TOTAL RESIDUAL CHLORINE

2. To the test sample from Step 1 above, add one *Chlorine DPD #3R Tablet (6905A). Cap and mix until tablet disintegrates.
3. 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).
4. Insert the test tube into the Chlorine DPD Comparator, 0.1-1.0 ppm (6978) or the Chlorine DPD Comparator, 1.0-6.0 ppm (6979). 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. Rinse the test tube (0898) with sample water. Fill to the bottom line with sample water.
2. Add one *Chlorine DPD #4R Tablet (6899A). Crush tablet with tablet crusher (0175). Cap and mix until tablet disintegrates.
3. Insert the test tube into the Chlorine DPD Comparator, 0.1-1.0 ppm (6978) or the Chlorine DPD Comparator, 1.0-6.0 ppm (6979). 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 5 under Procedure 1.
2. To determine parts per million Bromine, multiply the comparator reading from Step 1 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 1 by 3.5. ppm

Free Available Chlorine x 3.5 = ppm Iodine

PROCEDURE 5: pH

1. Rinse the test tube (0898) with sample water. Fill to the top line with sample water.
2. Add one Phenol Red Tablet (6915). Crush tablet with tablet crusher (0175). Cap and mix until tablet disintegrates.
3. Immediately insert tube into Phenol Red Comparator (2185). Match sample color to a color standard. Record as pH.

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