

LaMOTTE POMEROY METHOD MODEL CC-PS • CODE 4630

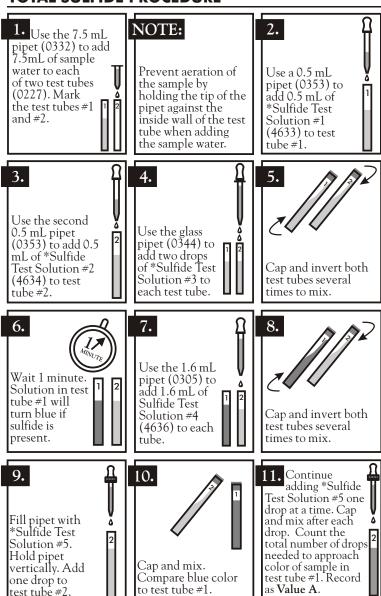
QUANTITY	CONTENTS	CODE		
60 mL	*Sulfide Test Solution #1	*4633-H		
60 mL	*Sulfide Test Solution #2	*4634-H		
60 mL	*Sulfide Test Solution #3	*4635-H		
60 mL	Sulfide Test Solution #4	4636-H		
2 x 100 mL	Sulfide Test Solution #4	4636-J		
60 mL	*Sulfide Test Solution #5	*4637-S		
60 mL	Sulfide Test Solution #6	4638-S		
60 mL	*Sulfide Test Solution #7	*4639-H		
60 mL	*Sulfide Test Solution #8	*4640-H		
1	Pipet, 7.5 mL, glass, w/bulb	0332		
1	Pipet, glass, w/cap	0344		
2	Pipets, 0.5 mL, plastic	0353		
1	Pipet, 1.6 mL, glass	0305		
2	Pipets, 0.5 mL, plastic w/caps			
4	Test Tubes, Pomeroy, glass, w/caps			
1	Bottle, Flocculating, 100 mL, w/stopper			

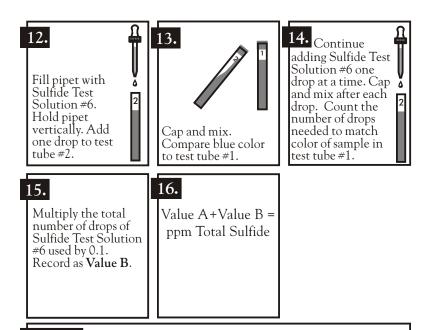
*WARNING: Reagents marked with an * are considered to be potential health hazards. To view or print a Material Safety Data Sheet (MSDS) for these reagents go to www.lamotte.com. To obtain a printed copy, contact LaMotte by e-mail, phone or fax.

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

TEST RANGE: 0-18 ppm Sulfide. Concentrations above 18 ppm Sulfide will require a sample dilution. Test results should be multiplied by the appropriate dilution factor. Some loss of sulfide may occur during dilution.

TOTAL SULFIDE PROCEDURE





NOTE:

This procedure may be performed using only *Sulfide Test Solution #5 for an approximate reading. The procedure may then be repeated using both solutions for a precise result. With practice it is possible to switch to Sulfide Test Solution #6 before color match occurs.

DISSOLVED SULFIDE PROCEDURE

- 1. Fill amber flocculating bottle (1188) completely by allowing sample to overflow the bottle and then stoppering.
- 2. Use the 0.5 mL pipet (0369) to add 0.5 mL *Sulfide Test Solution #7 (4639).
- Use the 0.5 mL pipet (0369) to add 0.5 mL *Sulfide Test Solution #8 (4640). Stopper bottle, being careful to exclude all air bubbles. Invert rapidly for one minute to flocculate sample. Wait 15 minutes.
- Use clear liquid in flocculating bottle. Following Steps 1-16 of the Total Sulfide test procedure to test for dissolved sulfide. Record result as ppm Dissolved Sulfide.

HYDROGEN SULFIDE PROCEDURE

- 1. Measure pH of test sample.
 - **NOTE:** Reagents or apparatus for determining pH are not included in this kit but may be ordered from LaMotte Company.
- Use Dissolved Sulfide test procedure to determine dissolved sulfide concentration.
- 3. Refer to graph below to determine the proportions of H₂S and HS in dissolved sulfide.

pH Correction Factors for Hydrogen Sulfide Determination

рН	Factor	рН	Factor	рН	Factor	рН	Factor
5.0	0.98	6.4	0.67	7.3	0.20	8.4	0.020
5.2	0.97	6.5	0.61	7.4	0.17	8.6	0.012
5.4	0.95	6.6	0.56	7.5	0.14	8.8	0.0079
5.6	0.93	6.7	0.50	7.6	0.11	9.0	0.0050
5.8	0.89	6.8	0.44	7.7	0.091	9.2	0.0032
6.0	0.83	6.9	0.39	7.8	0.073	9.4	0.0020
6.1	0.80	7.0	0.33	7.9	0.059	9.6	0.0013
6.2	0.76	7.1	0.28	8.0	0.048		
6.3	0.72	7.2	0.24	8.2	0.031		

4. Multiply dissolved sulfide level by the pH correction factor. Record as ppm Hydrogen Sulfide.

ppm Hydrogen Sulfide (H_2S) = ppm Dissolved Sulfide x pH Correction Factor

TEST EQUIPMENT CARE & MAINTENANCE

- 1. Carefully wash and rinse all apparatus after each use.
- 2. Tighten reagent container caps immediately after use. Do not interchange caps.
- 3. Avoid prolonged exposure of test components to direct sunlight.
- 4. Avoid extreme high temperatures and protect components from freezing.
- 5. Keep reagent containers out of reach of young children.

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