## **SULFIDE TEST KIT** Code 4630 | LaMotte Pomeroy Method

# **€**LaMotte

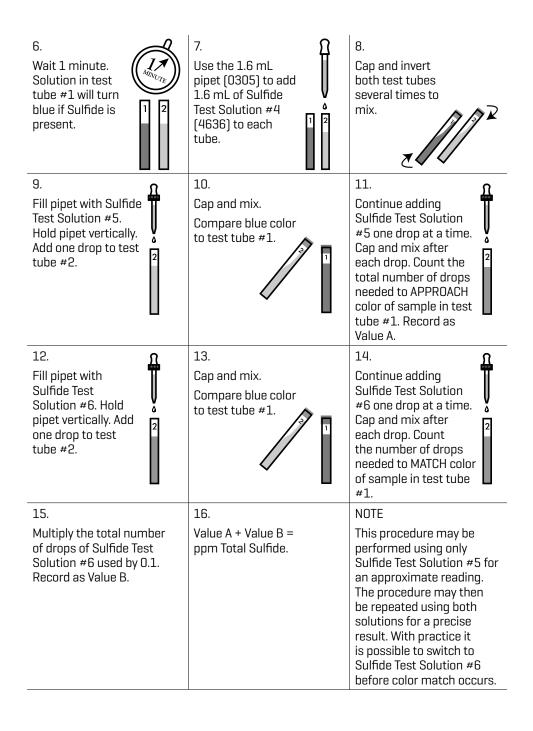
OLIANITITY	CONTENTS	CODE	
QUANTITY		CODE	
60 mL	*Sulfide Test Solution #1	*4633-H	
60 mL	*Sulfide Test Solution #2	*4634-H	
60 mL	*Sulfide Test Solution #3	*4635-H	*Reagent is a potential health
60 mL	Sulfide Test Solution #4	4636-H	hazard. <b>READ SDS</b>
2 x 100 mL	Sulfide Test Solution #4	4636-J	Emergency information: Chem-Tel USA 1-800-255-3924
60 mL	Sulfide Test Solution #5	4637-S	Int'l, call collect, 813-248-0585
60 mL	Sulfide Test Solution #6	4638-S	PEAD 7/2
60 mL	Sulfide Test Solution #7	4639-H	SDS 🔼
60 mL	*Sulfide Test Solution #8	*4640-H	
1	Pipet, 7.5 mL, glass, w/bulb	0332	SEPA ACCEPTED
1	Pipet, glass, w/cap	0344	TON TON
2	Pipets, 0.5 mL, plastic	0353	( ) <b>SEPA</b> ( )
1	Pipet, 1.6 mL, glass	0305	ACCEPTED
2	Pipets, 0.5 mL, plastic w/caps	0369	——————————————————————————————————————
4	Test Tubes, Pomeroy, glass, w/caps	0227	
1	Bottle, Flocculating, 100 mL, w/stopper	1188	-
To order indi specified co	vidual reagents or test kit components, ι de number.	use the	_

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**

1. Use the 7.5 mL pipet (0332) to add 7.5 mL of sample water to each of two test tubes (0227). Mark the test tubes #1 and #2.		NOTE Prevent aeration of the sample by holding the tip of the pipet against the inside wall of the test tube when adding the sample water.	Use a 0.5 mL pipet [0353] to add 0.5 mL of *Sulfide Test Solution #1 [4633] to test tube #1.
3. Use the second 0.5 mL pipet (0353) to add 0.5 mL of *Sulfide Test Solution #2 (4634) to test tube #2.	2	Use the glass pipet (0344) to add two drops of *Sulfide Test Solution #3 to each test tube.	5. Cap and invert both test tubes several times to mix.

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#### **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].
- 3. 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.
- 4. 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

- 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.
- 2. Use Dissolved Sulfide test procedure to determine Dissolved Sulfide concentration.
- 3. Refer to table below to determine the proportions of H<sub>2</sub>S and HS in Dissolved Sulfide.

#### pH Correction Factors for Hydrogen Sulfide Determination

• • • • • • • • • • • • • • • • • • • •							
рН	Factor	рН	Factor	рН	Factor	pН	Factor
5.0	0.99	6.4	0.80	7.3	0.33	8.4	0.04
5.2	0.98	6.5	0.75	7.4	0.28	8.6	0.02
5.4	0.97	6.6	0.71	7.5	0.24	8.8	0.01
5.6	0.96	6.7	0.66	7.6	0.20	9.0	0.0050
5.8	0.94	6.8	0.62	7.7	0.17	9.2	0.0032
6.0	0.90	6.9	0.56	7.8	0.14	9.4	0.0020
6.1	0.89	7.0	0.50	7.9	0.11	9.6	0.0013
6.2	0.86	7.1	0.45	8.0	0.09		
6.3	0.79	7.2	0.38	8.2	0.06		

Multiply Dissolved Sulfide result 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.