

# HYDROGEN PEROXIDE & PERACETIC ACID KIT

Code 7191-02 | Drop Count



QUANTITY	CONTENTS	CODE
30 mL	*Sulfuric Acid, 1:1	*6141WT-G
15 mL	Ferrioin Indicator	6410-E
2 x 30 mL	*Hydrogen Peroxide Titrant	*5650LWT-G
30 mL	Potassium Iodide 20% Solution	6521-G
60 mL	Peracetic Acid Titrant	S-6155-H
1	Test Tube, 5-10-25 mL, plastic, w/cap	0715
1	Pipet, 0.5 mL, plastic	0353

\*Reagent is a potential health hazard. **READ SDS:** lamotte.com  
**Emergency information:**  
Chem-Tel USA 1-800-255-3924  
Int'l, call collect, 813-248-0585



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

NOTE: Do not use for tapwater or less than 20 ppm peracetic acid.

## PROCEDURE

### HYDROGEN PEROXIDE

1. Fill test tube [0715] to 10 mL line with sample water.
2. Add 10 drops of \*Sulfuric Acid, 1:1 [6141WT]. Swirl to mix. Make sure solution is thoroughly mixed.
3. Add 1 drop of Ferrioin Indicator [6410]. Swirl to mix. Make sure solution is thoroughly mixed. Solution will turn pale orange-pink if hydrogen peroxide is present.
4. While gently swirling tube, add \*Hydrogen Peroxide Titrant [5650LWT] one drop at a time until pale orange-pink color changes to colorless or pale yellow. Make sure solution is thoroughly mixed. Count the number of drops added. Hold bottle vertically.
5. Discard titrated sample and rinse tube out with sample water.
6. Multiply the number of drops used in Step 4 by 50 (fifty). Record as ppm Hydrogen Peroxide.

### PERACETIC ACID

NOTE: This method may be used to test low to high concentration of peracetic acid. Choose the procedure that is most appropriate for the sample being tested.

#### 1 drop = 15 ppm

1. Fill test tube [0715] to 10 mL line with sample water.
2. Add 10 drops of \*Sulfuric Acid, 1:1 [6141WT]. Swirl to mix. Make sure solution is thoroughly mixed.
3. Add 1 drop of Ferrioin Indicator [6410]. Swirl to mix. Make sure solution is thoroughly mixed.
4. Add 1 drop of Potassium Iodide 20% Solution [6521]. Swirl to mix. Make sure solution is thoroughly mixed. Solution will turn a cloudy brown if peracetic acid is present.
5. While gently swirling tube, add Peracetic Acid Titrant [S-6155], one drop at a time until brown color changes to a clear, pale orange-pink which persists for 20 seconds. Make sure solution is thoroughly mixed. Count the number of drops added. Hold bottle vertically.

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6. Multiply the number of drops used in Step 5 by 15 (fifteen). Record as ppm Peracetic Acid.

**For Example:**

**10 drops x 15 = 150 ppm Peracetic Acid**

### **Low Range (20-90 ppm) 1 drop = 6 ppm**

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Fill the test tube to the 25 mL line. Follow the test procedure and use 25 drops of \*Sulfuric Acid, 1:1 (6141WT), 3 drops of Ferroin Indicator (6410) and 3 drops of Potassium Iodide 20% Solution (6521). In Step 6 multiply the number of drops used by 6 (six). Record as ppm Peracetic Acid.

**For Example:**

**10 drops x 6 = 60 ppm Peracetic Acid**

### **High Range (300-5,000 ppm) 1 drop = 300 ppm**

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For higher concentrations of peracetic acid use the 0.5 mL pipet (0353) to add 0.5 mL of the sample to the test tube (0715). Fill the tube to the 10 mL line with hydrogen peroxide/peracetic acid-free water. Follow Steps 2 - 5. In Step 6 multiply the number of drops used by 300 (three hundred). Record as ppm Peracetic Acid.

**For Example:**

**10 drops x 300 = 3000 ppm Peracetic Acid**