

PAC-505 TESTING PROCEDURE – CHLORINE

TEST KIT: PKTK4015-Z, Item #50214

This is a modified TK4015-Z using 1mL instead of 10mL for 50ppm per drop.

1. Rinse vial with solution to be tested.
2. Add 1mL of sample to vial and fill up to 10mL line with tap water.
3. Add 10 drops Potassium Iodide (PI1450) and swirl for 5 seconds to mix.
4. Add 5 drops Starch Indicator (ST5010) and swirl for 5 seconds to mix.
5. Add 3 drops Sulfuric Acid 50% (SA1940) and swirl 5 seconds to mix. The sample should turn blue-black color.
6. Add Sodium Thiosulfate 0.0365N (ST2705) one drop at a time while swirling. Count the number of drops until the sample returns to its original color.
7. Calculate the result by multiplying the number of drops by 50.

drops * 50 = ppm Chlorine

Drops for 1 drop = 50 ppm method	ppm chlorine	oz/gal
2	100	0.78
4	200	1.32
6	300	1.86
8	400	2.40
10	500	2.95
12	600	3.49
14	700	4.03
16	800	4.57
18	900	5.11
20	1000	5.65

PAC-505 TESTING PROCEDURE – BASE

TEST KIT: PKTK3000-Z, Item #50212

1. Rinse vial with solution to be tested.
2. Fill vial to 50ml line with sample. Use the included 12 cc syringe to acquire the sample.
3. Add 5 drops Phenolphthalein Indicator (PH1605) and swirl to mix. The sample should turn red.
4. Add Hydrochloric Acid 7.7N (HA6207) dropwise while swirling until the sample returns to its original color. Record the number of drops.
5. Multiply the number of drops by the factor below to obtain the % caustic.

1 drop = 0.025% Caustic as NaOH

Drops of Titrant	% Caustic as NaOH	oz/gal
4	0.1	2
6	0.1	2
8	0.2	3
10	0.2	4
12	0.2	5
14	0.3	5
16	0.3	6
18	0.4	7
20	0.4	8
22	0.4	9
24	0.5	9
26	0.5	10
28	0.6	11
30	0.6	12
32	0.6	12