

COLOR COMPARISON TEST
SILICIA (5-50, 25-250, or 50-500 ppm)

Instr. #5321

COMPONENTS:

1 x 3267	Cap, Test Cell (5 mL), plastic
1 x 4005	Cylinder, Graduated (50 mL w/ 1.0 mL div), glass
1 x 4025	Test Cell, Calibrated (5 mL), plastic
1 x 4026	Dipper Spoon, 2 g, plastic, white
3 x 4030	Pipet, Calibrated (0.5 & 1.0 mL) w/ cap, plastic
1 x 5321	Instruction
1 x 6002	Brush, Test Cell
1 x 9198	Sample Tube, Graduated (25 mL) w/ cap, plastic
1 x 9257	Midget Comparator, Silica, Heterotrophy Blue, 5-50 ppm
1 x R-1305Q-II	Silica Reagent #4, 50 g
1 x R-1305U-C	Silica Reagent #3*, 2 oz
1 x R-1306T-C	Silica Reagent #1**, 2 oz
1 x R-1306U-C	Silica Reagent #2, 2 oz

**TO ORDER REPLACEMENT PARTS AND REAGENTS CALL TOLL-FREE
800-TEST KIT (800-837-8548).**

PROCEDURE:

**CAREFULLY READ AND FOLLOW PRECAUTIONS ON REAGENT LABELS.
KEEP REAGENTS AWAY FROM CHILDREN.**

Silica Test

For 5-50 ppm Silica

1. Rinse and fill 25 mL sample tube (#9198) to 25 mL mark with water to be tested.
2. Using a 1.0 mL pipet (#4030), add 1.0 mL R-1306T Silica Reagent #1. Swirl to mix.
3. Using a separate 1.0 mL pipet, add 1.0 mL R-1306U Silica Reagent #2. Swirl to mix. WAIT 5 MINUTES.

4. Using a separate 1.0 mL pipet, add 1.0 mL R-1305U Silica Reagent #3. Swirl to mix.
5. Using 2 g dipper spoon (#4026), add 1 level dipper R-1305Q Silica Reagent #4. Swirl until dissolved. WAIT 1 MINUTE. Transfer to 5 mL test cell (#4025) to 5 mL mark.
6. Wipe dry and place in comparator WITH FROSTED SIDE FACING OPERATOR.
7. Match color in test cell with a color standard. Record as parts per million (ppm) silica (SiO₂).

For 5-250 ppm Silica

1. Rinse and fill 50 mL graduated cylinder (#4005) to 10 mL mark with water to be tested.
2. Dilute to 50 mL mark with distilled, deionized, or silica-free water. Pour back and forth into 25 mL sample tube (#9198) to mix. Transfer to 25 mL sample tube to 25 mL mark.
3. Using a 1.0 mL pipet (#4030), add 1.0 mL R-1306T Silica Reagent #1. Swirl to mix.
4. Using a separate 1.0 mL pipet, add 1.0 mL R-1306U Silica Reagent #2. Swirl to mix. WAIT 5 MINUTES.
5. Using a separate 1.0 mL pipet, add 1.0 mL R-1305U Silica Reagent #3. Swirl to mix.
6. Using 2 g dipper spoon (#4026), add 1 level dipper R-1305Q Silica Reagent #4. Swirl until dissolved. WAIT 1 MINUTE. Transfer to 5 mL test cell (#4025) to 5 mL mark.

(OVER)

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7. Wipe dry and place in comparator WITH FROSTED SIDE FACING OPERATOR.
8. Match color in test cell with a color standard. Multiply reading by 5. Record as parts per million (ppm) silica (SiO_2).

For 5-500 ppm Silica

1. Rinse and fill 50 mL graduated cylinder (#4005) to 5 mL mark with water to be tested.
2. Dilute to 50 mL mark with distilled, deionized, or silica-free water. Pour back and forth into 25 mL sample tube (#9198) to mix. Transfer to 25 mL sample tube to 25 mL mark.
3. Using a 1.0 mL pipet (#4030), add 1.0 mL R-1306T Silica Reagent #1. Swirl to mix.
4. Using a separate 1.0 mL pipet, add 1.0 mL R-1306U Silica Reagent #2. Swirl to mix. WAIT 5 MINUTES.
5. Using a separate 1.0 mL pipet, add 1.0 mL R-1305U Silica Reagent #3. Swirl to mix.
6. Using 2 g dipper spoon (#4026), add 1 level dipper R-1305Q Silica Reagent #4. Swirl until dissolved. WAIT 1 MINUTE. Transfer to 5 mL test cell (#4025) to 5 mL mark.
7. Wipe dry and place in comparator WITH FROSTED SIDE FACING OPERATOR.
8. Match color in test cell with a color standard. Multiply reading by 10. Record as parts per million (ppm) silica (SiO_2).

*WARNING: Silica Reagent #3 (R-1305U) contains 5-15% w/w oxalic acid, a poison.

**WARNING: Silica Reagent #1 (R-1306T) contains 10-20% w/w hydrochloric acid, a corrosive acid.



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