

DROP TEST FREE CHELANT (1 drop = 10 ppm NTA)

COMPONENTS:

2 x 2269	Cap, Dispenser, 18 mm, white
1 x 4027	Funnel, 58 mm, plastic
1 x 4030	Pipet, Calibrated (0.5 & 1.0 mL) w/ cap, plastic
1 x 5529	Instruction
1 x 6009	Filter Paper, 9.0 cm, #610, 100/box
1 x 9198	Sample Tube, Graduated (25 mL) w/ cap, plastic
1 x R-0620B-I	Hardness Indicator Powder, 10 g w/ blue dot
1 x R-0877-C	Magnesium Chloride Reagent, 2 oz, DB
1 x R-0878-C	NTA Buffer Solution, 2 oz
2 x R-0879-C	NTA Cosolvent Solution, 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.**

NOTE: When dispensing reagents from dropper bottles or pipets, **always** hold bottle/pipet in a vertical position.

Free Chelant Test

1. Filter water to be tested to clarify.
2. Rinse and fill 25 mL sample tube (#9198) to 10 mL mark with filtered sample.
3. Using 1.0 mL pipet (#4030), add 0.5 mL R-0878 NTA Buffer Solution. Swirl to mix.

4. Cap R-0879 NTA Cosolvent Solution with dispenser cap (#2269). Add R-0879 NTA Cosolvent Solution to 20.5 mL mark. Swirl to mix.
5. Add 1 level dipper R-0620B Hardness Indicator Powder. Swirl to mix. Sample will turn blue (Fig. 1) if chelant is present.
6. Add R-0877 Magnesium Chloride Reagent dropwise, swirling and counting after each drop, until color changes from blue to red (Fig. 2).
7. Multiply drops of R-0877 Magnesium Chloride by 10. Record as parts per million (ppm) free chelant as nitrilotriacetic acid (NTA).



Fig. 1



Fig. 2



31 Loveton Circle, Sparks, MD 21152 USA
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