DROP TEST
TOTAL CHELANT (1 drop = 2 or 5 ppm EDTA)

COMPONENTS:

1 x 4027	Funnel, 58 mm, plastic
1 x 5050	Instruction
1 x 6009	Filter Paper, 9.0 cm, #610, 100/box
1 x 9198LB	Sample Tube, Graduated (25 mL) w/ cap & blue dot, plastic
1 x R-0735LB-C	Hydrochloric Acid .6N, 2 oz w/ light blue cap, DB
1 x R-0911-I	Total Chelant Indicator Powder, 10 g
1 x R-0912-C	Total Chelant Titrating Solution, 2 oz, DB

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, **always** hold bottle in a vertical position.

Total Chelant Test

For 1 drop = 2 ppm EDTA

1. Filter water to be tested to clarify.

NOTE: Run a blank with chelant-free water. Normal blank requires about 2 drops R-0912 Total Chelant Titrating Solution to reach endpoint.

2. Rinse and fill 25 mL sample tube (#9198LB) to 25 mL mark with water to be tested.
3. Add 1 dipper R-0911 Total Chelant Indicator Powder. Swirl until dissolved. If sample turns yellow (Fig. 1), add 1 drop R-0735LB Hydrochloric Acid .6N. If sample turns violet blue (Fig. 2), add R-0735LB Hydrochloric Acid .6N dropwise, swirling after each drop, until color changes from violet blue to yellow. Add 1 more drop R-0735LB Hydrochloric Acid .6N.
4. Add R-0912 Total Chelant Titrating Solution dropwise, swirling and counting after each drop, until color changes from yellow to violet blue.
5. Subtract drops of R-0912 Total Chelant Titrating Solution in blank from drops used in sample (Step 4). Multiply by 2. Record as parts per million (ppm) total chelant as EDTA (ethylenediaminetetraacetic acid).

For 1 drop = 5 ppm EDTA

1. Filter water to be tested to clarify.

NOTE: Run a blank with chelant-free water. Normal blank requires about 2 drops R-0912 Total Chelant Titrating Solution to reach endpoint.

2. Rinse and fill 25 mL sample tube (#9198LB) to 10 mL mark with water to be tested.
3. Add 1 dipper R-0911 Total Chelant Indicator Powder. Swirl until dissolved. If sample turns yellow (Fig. 1), add 1 drop R-0735LB Hydrochloric Acid .6N. If sample turns violet blue (Fig. 2), add R-0735LB Hydrochloric Acid .6N dropwise, swirling after each drop, until color changes from violet blue to yellow. Add 1 more drop R-0735LB Hydrochloric Acid .6N.
4. Add R-0912 Total Chelant Titrating Solution dropwise, swirling and counting after each drop, until color changes from yellow to violet blue.
5. Subtract drops of R-0912 Total Chelant Titrating Solution in blank from drops used in sample (Step 4). Multiply by 5. Record as parts per million (ppm) total chelant as EDTA (ethylenediaminetetraacetic acid).

NOTE: If total chelant levels are unusually high, indicator color transition may be from yellow to red. Repeat test using sample diluted (1:1) with chelant-free water. Multiply final result by 2. Record as parts per million (ppm) total chelant as EDTA (ethylenediaminetetraacetic acid).

Fig. 1

Fig. 2

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