



HYDRO-ZONE, INC.
17800 TELEGRAPH, ROMULUS, MI 48174
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TOTAL CHELANT DROP TEST PROCEDURE

Code: K1544

(1 drop = 5 ppm Total Chelant as EDTA)

Procedure:

1. If the water sample is hot and/or cloudy, cool and/or filter it through a 0.45 micron filter - use kit HZ915010, if necessary.
2. Place 10 mls of the sample into the clean calibrated sample tube.
3. Add a scoop, 0.05 gm, of R-0911, Total Chelant Indicator powder. Swirl to dissolve and mix.
4. If the sample turns yellow, add one drop of HZHA6117-B, Hydrochloric Acid, 0.6N. If the sample turns blue-violet, add HZHA6117-B dropwise with swirling until the sample just turns yellow, then add one additional drop of HZHA6117-B.
5. Add R-0912, Total Chelant Titrating Solution a drop at a time, swirl mixing after each drop, until the solution color changes from yellow to blue-violet. Always hold the bottle in vertical position when titrating. Record the number of drops.

6. Calculation:

Subtract the drops of R-0912 Total Chelant Titrating Solution in blank from drops used in sample.

The drops of R-0912 times 5 = ppm Total Chelant expressed as EDTA.

$$[\text{drops} \times 5 = \text{ppm Total Chelant as EDTA}]$$

Reagents and Components:

- 1 X K1544, Plastic Case w/Insert
- 1 X 60 MLS DB, HZHA6117-B, Hydrochloric Acid, 0.6N
- 1 X 10 GM, R-0911, Total Chelant Indicator powder
- 1 X 60 MLS DB, R-0912, Total Chelant Titrating Solution
- 1 X 9198, Calibrated Sample Tube, 25 ml, plastic with cap
- 1 X HZ553100, Scoop, 0.05 gm
- 1 X 5050 Instructions, Total Chelant Drop Test Procedure

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