



HIGH RANGE QAC KIT
DIRECT READING TITRATOR, 0-5000 ppm
CODE 3042-01

| QUANTITY | CONTENTS | CODE |
|----------|--|----------|
| 15 mL | *QAC Indicator Solution | *6413-E |
| 60 mL | QAC Titration Solution | 6412-H |
| 1 | Plastic Tube, 5-25 mL | 0715-DRT |
| 1 | Syringe, 5 mL | 30550 |
| 1 | Direct Reading Titrator, 0-1,000 Range | 0384 |
| 1 | Brush, Test Tube | 0514 |

*WARNING: Reagents marked with an * are considered to be potential health hazards. To view or print a Material Safety Data Sheet (MSDS) for these reagents go to www.lamotte.com. To obtain a printed copy, contact LaMotte by e-mail, phone or fax.

To order individual reagents or test kit components, use the specified code number.

Read the LaMotte Direct Reading Titrator Manual before proceeding. The Titrator is calibrated in parts per million (ppm) QAC; each minor division equals 20 ppm.

NOTE: High water hardness levels above 600 ppm may interfere. A dilute HCl solution may be added to lower the pH to 2-5 to compensate for the interference.

PROCEDURE

1. Use the syringe, or other available device, to add 5 mL of sample water to the test tube (0715). Dilute to 15 mL line with QAC-free tapwater or distilled water.
NOTE: Other sample sizes may be used to extend the range of the test. Use the table below to determine sample size and appropriate multiplication factor for the Titrator reading from Step 5.

| Range | Sample Size | Multiply Titrator reading by: |
|------------|-------------|-------------------------------|
| 0-5000 ppm | 1.0 mL | 5 |
| 0-2500 ppm | 2.0 mL | 2.5 |
| 0-2000 ppm | 2.5 mL | 2 |

2. Add 5 drops of *QAC Indicator Solution (6413). Cap and mix. Solution will turn green. Solution will turn brown if no QAC is present.
3. Fill Direct Reading Titrator (0384) with QAC Titration Solution (6412).
4. While gently swirling the tube, slowly press the plunger to titrate until the green tint just disappears and the solution turns brown.
5. Read the test result directly from the scale where the large ring on the Titrator meets the Titrator barrel. If using a sample size other than 5 mL, multiply Titrator result by the appropriate multiplication factor. Record as ppm QAC.
6. Thoroughly wash the test tube with the brush (0514). Rinse with clean water after each test.

