



# Low-level CRMs

Synthetic drinking and wastewater matrices with low concentrations of analytes for testing water supply, drinking water, ground water, water pollution, or wastewater.

Save time diluting your standards or spending numerous hours producing them yourself with our low-level Certified Reference Materials (CRMs).

Our line of low-level CRMs are optimal for:

- ✓ Method development and validation
- ✓ System checks
- ✓ Evaluating limits of quantitation
- ✓ Minimum detection limit studies
- ✓ Detection verification
- ✓ Many other uses



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## Inorganics

### Common Inorganics

CRM  
Cat. #1249

One liter poly bottle whole-volume sample is ready to be analyzed.

Alkalinity.....	20-120 mg/L
Calcium.....	2-50 mg/L
Chloride.....	25-500 mg/L
Conductivity.....	80-1,000 µmhos/cm
Fluoride.....	0.25-5 mg/L
Magnesium.....	1-25 mg/L
pH.....	5-10 units
Potassium.....	2-50 mg/L
Sodium.....	5-100 mg/L
Sulfate.....	2-50 mg/L
Total dissolved solids.....	60-750 mg/L
Total hardness.....	9-250 mg/L

### Common Inorganics in Soft Water

CRM  
Cat. #1347

A 1 liter poly bottle whole-volume sample is ready to be analyzed.

Alkalinity.....	20-100 mg/L
Calcium.....	2-50 mg/L
Chloride.....	5-50 mg/L
Conductivity.....	25-300 µmhos/cm
Fluoride.....	0.2-2 mg/L
Magnesium.....	0.5-5 mg/L
pH.....	5-10 units
Potassium.....	1-10 mg/L
Sodium.....	5-50 mg/L
Sulfate.....	5-50 mg/L
Total dissolved solids.....	20-200 mg/L
Total hardness.....	5-75 mg/L

### Demand

CRM  
Cat. #1354

One 15 mL screw-cap vial yields up to 2 liters of sample.

5-day BOD.....	2-25 mg/L
COD.....	2-25 mg/L
DOC.....	1-10 mg/L
TOC.....	1-10 mg/L

**CRM:** A reference material characterized by a metrologically valid procedure for one or more specified properties, accompanied by a reference material certificate that provides the value of the specified property, its associated uncertainty, and a statement of metrological traceability.

### Common Inorganics in Hard Water

CRM  
Cat. #1346

One liter poly bottle whole-volume sample is ready to be analyzed.

Alkalinity.....	20-100 mg/L
Calcium.....	10-100 mg/L
Chloride.....	20-250 mg/L
Conductivity.....	130-1400 µmhos/cm
Fluoride.....	0.2-2 mg/L
Magnesium.....	2-10 mg/L
pH.....	5-10 units
Potassium.....	2-25 mg/L
Sodium.....	20-250 mg/L
Sulfate.....	20-250 mg/L
Total dissolved solids.....	100-1000 mg/L
Total hardness.....	30-300 mg/L

## Metals

### Metals

CRM  
Cat. #1244

One 15 mL screw-cap vial spiking concentrate and one 24 mL screw-cap vial matrix concentrate yields up to 2 liters of sample.

Aluminum.....	200-4000 µg/L
Antimony.....	95-900 µg/L
Arsenic.....	70-900 µg/L
Barium.....	100-2500 µg/L
Beryllium.....	8-900 µg/L
Boron.....	800-2000 µg/L
Cadmium.....	8-750 µg/L
Chromium, total.....	17-1000 µg/L
Cobalt.....	28-1000 µg/L
Copper.....	40-900 µg/L
Iron.....	200-4000 µg/L
Lead.....	70-3000 µg/L
Manganese.....	70-4000 µg/L
Molybdenum.....	60-600 µg/L
Nickel.....	80-3000 µg/L
Selenium.....	90-2000 µg/L
Silver.....	26-600 µg/L
Strontium.....	30-300 µg/L
Thallium.....	60-900 µg/L
Vanadium.....	55-2000 µg/L
Zinc.....	100-2000 µg/L



# Don't stress the test

We understand one of the biggest challenges you face in your laboratory is time. To help reduce laboratory stress, we provide you with final PT results in just two business days.

- Gain peace of mind knowing that you passed your PT quickly
- Identify the root cause of analysis problems faster
- Implement corrective actions sooner to improve the defensibility of results in less time

## When Time Is Not On Your Side

A critical evaluation is just that – critical. Sometimes you need to quickly demonstrate corrective action or confirm a new method, meaning you can't wait for a regularly scheduled PT. Quik Response™ PTs are on-demand Proficiency Tests that return results within minutes of entering your study data. No waiting. No wondering. No worries. Just results for critical evaluations.

Ask your Waters ERA representative or an authorized sales partner about Quik Response PTs. For more information, contact our customer service team at 800.372.0122 / +1.303.431.8454. or email [era\\_info@waters.com](mailto:era_info@waters.com).



**LEARN MORE AT**  
[eraqc.com/quikresponse](https://eraqc.com/quikresponse)

\* Two business day final report turnaround is not valid for the DMR-QA Study. PT results outside of the United States are generally available in 10 business days.