



Thermo Scientific™ Dionex™ IC Standards and Reagents

Easy and convenient IC reagent and standard preparation

Benefits

- Reduce reagent and standard preparation errors
- Improve day-to-day reproducibility
- Reduce downtime due to bad reagents

Keywords

Ion chromatography standards, anion standards, cation standards, oxyhalide standards, eluent concentrates, haloacetic acid standards, suppressor regenerant, ion-pairing reagents, transition metal reagents, chelation chromatography reagents

We offer a complete line of Thermo Scientific™ Dionex™ standards, reagents, and chemicals for ion chromatography applications. To simplify your chromatography, we have developed all the reagents and standards you need, including anion and cation standards, eluent concentrates, and suppressor regenerant concentrates. We also offer high-purity chemicals and reagents for transition metal analysis, including ultrapure chelation chromatography reagents for trace and ultratrace transition and lanthanide metal analysis.

- Only high-purity, reagent-grade chemicals and water (18 MΩ-cm) that have been checked for ionic contamination are used.
- A Certificate of Analysis is provided with every standard and chelation chromatography reagent.
- All standards are NIST* traceable.
- Minimize time-consuming reagent and standard validation.
- Keep your system operating at peak performance.
- Your satisfaction is guaranteed; all Thermo Scientific Dionex reagents and standards carry a 90-day warranty.

*National Institute of Standards and Technology

Ordering information

To order in the US, visit thermofisher.com, call (800) 532-4752, or contact the nearest Thermo Fisher Scientific office. Outside the US, order through your local Thermo Fisher Scientific office or distributor. Refer to the following part numbers.

| Anion standards | | Volume | Part number |
|---|-----------|--------|-------------|
| Dionex Nine Anion Standard | | 50 mL | 303173 |
| <i>Contains the following analytes:</i> | | | |
| Fluoride | 20 mg/L | | |
| Chloride | 30 mg/L | | |
| Nitrite | 100 mg/L | | |
| Bromide | 100 mg/L | | |
| Nitrate | 100 mg/L | | |
| Bromate | 100 mg/L | | |
| Chlorate | 100 mg/L | | |
| Phosphate | 150 mg/L | | |
| Sulfate | 150 mg/L | | |
| Dionex Seven Anion Retention Time Standard | | 50 mL | 088957 |
| <i>Contains the following analytes:</i> | | | |
| Fluoride | 1 mg/L | | |
| Chloride | 12 mg/L | | |
| Nitrite | 8 mg/L | | |
| Bromide | 18 mg/L | | |
| Nitrate | 18 mg/L | | |
| Phosphate | 13 mg/L | | |
| Sulfate | 20 mg/L | | |
| Dionex Seven Anion Retention Time Standard concentrate | | 50 mL | 302511 |
| <i>Contains the following analytes:</i> | | | |
| Fluoride | 100 mg/L | | |
| Chloride | 1200 mg/L | | |
| Nitrite | 800 mg/L | | |
| Bromide | 1800 mg/L | | |
| Nitrate | 1800 mg/L | | |
| Phosphate | 1300 mg/L | | |
| Sulfate | 2000 mg/L | | |
| Dionex Combined Seven Anion Standard I | | 50 mL | 056933 |
| <i>Contains the following analytes:</i> | | | |
| Fluoride | 20 mg/L | | |
| Chloride | 30 mg/L | | |
| Nitrite | 100 mg/L | | |
| Bromide | 100 mg/L | | |
| Nitrate | 100 mg/L | | |
| Phosphate | 150 mg/L | | |
| Sulfate | 150 mg/L | | |

| Anion standards (continued) | | Volume | Part number |
|--|----------|--------|-------------|
| Dionex Combined Seven Anion Standard II | | 50 mL | 057590 |
| <i>Contains the following analytes:</i> | | | |
| Fluoride | 20 mg/L | | |
| Chloride | 100 mg/L | | |
| Nitrite | 100 mg/L | | |
| Bromide | 100 mg/L | | |
| Nitrate | 100 mg/L | | |
| Phosphate | 200 mg/L | | |
| Sulfate | 100 mg/L | | |
| Dionex Combined Five Anion Standard | | 100 mL | 037157 |
| <i>Contains the following analytes:</i> | | | |
| Fluoride | 20 mg/L | | |
| Chloride | 30 mg/L | | |
| Nitrate | 100 mg/L | | |
| Phosphate | 150 mg/L | | |
| Sulfate | 150 mg/L | | |
| Dionex Fluoride Standard, 1000 mg/L | | 100 mL | 037158 |
| Dionex Chlorite Standard, 1000 mg/L | | 125 mL | 303167 |
| Dionex Bromate Standard, 1000 mg/L | | 125 mL | 303168 |
| Dionex Chloride Standard, 1000 mg/L | | 100 mL | 037159 |
| Dionex Nitrite Standard, 1000 mg/L | | 125 mL | 303169 |
| Dionex Chlorate Standard, 1000 mg/L | | 125 mL | 303170 |
| Dionex Nitrate Standard, 1000 mg/L | | 100 mL | 056497 |
| Dionex Phosphate Standard, 1000 mg/L | | 125 mL | 303172 |
| Dionex Sulfate Standard, 1000 mg/L | | 100 mL | 037160 |

| Cation standards | | Volume | Part number |
|--|-----------|--------|-------------|
| Dionex Six Cation Retention Time Standard | | 50 mL | 088964 |
| <i>Contains the following analytes:</i> | | | |
| Lithium | 2 mg/L | | |
| Sodium | 9 mg/L | | |
| Ammonium | 3 mg/L | | |
| Potassium | 21 mg/L | | |
| Magnesium | 9 mg/L | | |
| Calcium | 17 mg/L | | |
| Dionex Six Cation Retention Time Standard, 100x concentrate | | 50 mL | 088969 |
| <i>Contains the following analytes:</i> | | | |
| Lithium | 200 mg/L | | |
| Sodium | 900 mg/L | | |
| Ammonium | 300 mg/L | | |
| Potassium | 2100 mg/L | | |
| Magnesium | 900 mg/L | | |
| Calcium | 1700 mg/L | | |

| Cation standards (continued) | | Volume | Part number |
|---|-----------|--------|-------------|
| Dionex Combined Six Cation Standard I | | 50 mL | 040187 |
| <i>Contains the following analytes:</i> | | | |
| Lithium | 50 mg/L | | |
| Sodium | 200 mg/L | | |
| Ammonium | 400 mg/L | | |
| Potassium | 200 mg/L | | |
| Calcium | 1000 mg/L | | |
| Dionex Combined Six Cation Standard II | | 50 mL | 046070 |
| <i>Contains the following analytes:</i> | | | |
| Lithium | 50 mg/L | | |
| Sodium | 200 mg/L | | |
| Ammonium | 250 mg/L | | |
| Potassium | 500 mg/L | | |
| Calcium | 500 mg/L | | |

| MS standard concentrates | Volume | Part number |
|---|--------|-------------|
| <i>Designed for the quantification of perchlorate at low parts-per-trillion using mass spectrometric detection. Contains stable-labeled perchlorate (1 mg/L).</i> | | |
| Dionex Perchlorate-ISTD ¹⁸O Internal Standard for Perchlorate, 1 mg/L | 10 mL | 062923 |

| Haloacetic acid internal standards | Volume | Part number |
|--|--------|-------------|
| <i>Ready to use internal standards for haloacetic acid analysis using electrospray-mass spectrometric detection. Stable-labeled internal standards prepared in MTBE (methyl tertiary-butyl ether), 1 mL ampule plus empty vial</i> | | |
| Dionex Monochloroacetic Acid (MCAA-2-13C), 1000 mg/L | 1 mL | 069406 |
| Dionex Monobromoacetic Acid (MBAA-1-13C), 1000 mg/L | 1 mL | 069407 |
| Dionex Dichloroacetic Acid (DCAA-2-13C), 1000 mg/L | 1 mL | 069408 |
| Dionex Trichloroacetic Acid (TCAA-2-13C), 1000 mg/L | 1 mL | 069409 |

| Eluent concentrates/chemicals | Volume | Part number |
|--|----------------------|------------------|
| Dionex AS29 Eluent Concentrate (100x) <i>0.45 M Na₂CO₃/0.20 M NaHCO₃</i> | 250 mL | 302952 |
| Dionex AS23 Eluent Concentrate (100x) <i>0.45 M Na₂CO₃/0.08 M NaHCO₃</i> | 250 mL | 064161 |
| Dionex AS22 Eluent Concentrate (100x) <i>0.45 M Na₂CO₃/0.14 M NaHCO₃</i> | 250 mL | 063965 |
| Dionex AS14A Eluent Concentrate (100x) <i>0.80 M Na₂CO₃/0.10 M NaHCO₃</i> | 250 mL | 056937 |
| Dionex AS14A Eluent Concentrate (20x) <i>0.16 M Na₂CO₃/0.02 M NaHCO₃</i> | 100 mL 4 × 100 mL | 057560 057557 |
| Dionex AS14 Eluent Concentrate (100x) <i>0.35 M Na₂CO₃/0.10 M NaHCO₃</i> | 250 mL | 053560 |
| Dionex AS4A, AS4A-SC, and AS9-SC Eluent Concentrate (100x) <i>0.18 M Na₂CO₃/0.17 M NaHCO₃</i> | 250 mL | 039513 |

| Eluent concentrates/chemicals (continued) | Volume | Part number |
|---|----------------------|------------------|
| Dionex AS3/AS4 Eluent Concentrate (100x) <i>0.22 M Na₂CO₃/0.28 M NaHCO₃</i> | 500 mL | 037161 |
| Dionex Sodium Carbonate Concentrate <i>0.5 M Na₂CO₃</i> | 500 mL | 037162 |
| Dionex Sodium Bicarbonate Concentrate <i>0.5 M NaHCO₃</i> | 500 mL | 037163 |
| Dionex CS12A Eluent Concentrate (20x) <i>0.4 M MSA</i> | 100 mL 4 × 100 mL | 057562 057558 |
| Dionex DL-2,3-Diaminopropionic Acid Monohydrochloride (DAP-HCl) <i>For use with Dionex IonPac CS3, CS10, and CS11 columns</i> | 5 g | 039670 |

| Pressurized bottle and AutoRegen reagents for CRS suppressors | Volume | Part number |
|--|----------------------|------------------|
| Dionex Anion AutoRegen Concentrate (10x) <i>0.25 N H₂SO₄</i> | 50 mL | 039601 |
| Dionex Anion Regenerant Solution (20x) <i>0.5 N H₂SO₄</i> | 200 mL 4 × 200 mL | 039203 037164 |
| Dionex Cation Regenerant Solution (ready to use) <i>0.1 N TBAOH</i> | 500 mL | 039602 |

| Displacement chemical regeneration reagents for CRS suppressors | Volume | Part number |
|--|----------------------|------------------|
| Dionex Anion Regenerant Concentrate (20x) <i>2.0 N H₂SO₄</i> | 75 mL 4 × 75 mL | 057559 057555 |
| Dionex Cation Regenerant Solution (20x) <i>2.06 M TBAOH</i> | 100 mL 4 × 100 mL | 057561 057556 |
| Dionex Cation Regenerant Solution (ready to use) <i>0.1 N TBAOH</i> | 500 mL | 039602 |

| Ion pairing reagents | Volume | Part number |
|---|--------|-------------|
| Dionex IonSep™ Reagent (MPIC™-CR1) <i>0.1 M Hexanesulfonic Acid</i> | 500 mL | 035361 |
| Dionex IonSep Reagent (MPIC-CR2) <i>0.1 M Octanesulfonic Acid</i> | 500 mL | 035362 |
| Dionex IonSep Reagent (MPIC-AR1) <i>0.1 M Tetrabutylammonium Hydroxide (TBAOH)</i> | 500 mL | 035360 |
| Dionex IonSep Reagent (MPIC-AR2) <i>0.1 M Tetrapropylammonium Hydroxide (TPAOH)</i> | 500 mL | 035363 |

| Reagents for transition metals | Volume | Part number |
|--|---------|-------------|
| Dionex MetPac™ PDCA Eluent Concentrate (5x) | 1000 mL | 046088 |
| Dionex MetPac Oxalic Acid Eluent Concentrate (10x) | 500 mL | 046091 |
| Dionex MetPac PAR Postcolumn Diluent (ready to use) | 1000 mL | 046094 |

| Transition metal chemicals | Quantity | Part number |
|---|----------|-------------|
| Dionex Pyridine-2,6-Dicarboxylic Acid (PDCA) | 20 g | 039671 |
| Dionex 4-2(-Pyridylazo) Resorcinol (PAR) | 5 g | 039672 |

| Chelation chromatography reagents | Volume | Part number |
|-----------------------------------|--------|-------------|
|-----------------------------------|--------|-------------|

These reagents are specifically designed to be used with the Dionex IC/ICP Interface Module for the determination of transition and lanthanide metals at trace and ultratrace levels. A Certificate of Analysis is provided with each product.

| | | |
|-------------------------------|----------------|------------------|
| Dionex 2.0 M Nitric Acid | 1 L 6 × 1 L | 033442 033443 |
| Dionex 2.0 M Ammonium Acetate | 1 L 6 × 1 L | 033440 033441 |
| Dionex 0.1 M Ammonium Nitrate | 1 L 6 × 1 L | 033444 033445 |

Find out more at thermofisher.com/ICStandardsandReagents

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