



# 1 PPM Single Element Standards

## Claritas PPT® Grade Single Element Standards for ICP-MS

Claritas PPT® Grade Certified Reference Materials are designed for ICP-MS and can also be used in ICP analysis. They are available in single and multi-element solutions. The standards are at 1 µg/mL, 10 µg/mL or 1,000 µg/mL and packaged in 125 mL bottles to minimize contamination. They are made using ultra high purity acids, the highest grade starting materials and a high purity water to minimize contaminants. For additional product information, please visit [www.eu.fishersci.com](http://www.eu.fishersci.com).

| Element    | Concentration | Volume | Matrix   | Part #    |
|------------|---------------|--------|--|-----------|
| Aluminum   | 1 µg/mL       | 125 mL | 2% HCl   | CLAL1-1BY |
| Aluminum   | 1 µg/mL       | 125 mL | 2% HNO <sub>3</sub>                                      | CLAL2-1BY |
| Antimony   | 1 µg/mL       | 125 mL | H <sub>2</sub> O/tr. HNO <sub>3</sub> /tr. Tartaric Acid | CLSB7-1BY |
| Arsenic    | 1 µg/mL       | 125 mL | 2% HNO <sub>3</sub>                                      | CLAS2-1BY |
| Beryllium  | 1 µg/mL       | 125 mL | 2% HNO <sub>3</sub>                                      | CLBE2-1BY |
| Bismuth    | 1 µg/mL       | 125 mL | 2% HNO <sub>3</sub>                                      | CLBI2-1BY |
| Boron      | 1 µg/mL       | 125 mL | H <sub>2</sub> O   | CLB9-1BY  |
| Cobalt     | 1 µg/mL       | 125 mL | 2% HNO <sub>3</sub>                                      | CLCO2-1BY |
| Dysprosium | 1 µg/mL       | 125 mL | 2% HNO <sub>3</sub>                                      | CLDY2-1BY |
| Gadolinium | 1 µg/mL       | 125 mL | 2% HNO <sub>3</sub>                                      | CLGD2-1BY |
| Gallium    | 1 µg/mL       | 125 mL | 2% HNO <sub>3</sub>                                      | CLGA2-1BY |
| Hafnium    | 1 µg/mL       | 125 mL | 2% HCl   | CLHF1-1BY |
| Holmium    | 1 µg/mL       | 125 mL | 2% HNO <sub>3</sub>                                      | CLHO2-1BY |
| Indium     | 1 µg/mL       | 125 mL | 2% HNO <sub>3</sub>                                      | CLIN2-1BY |
| Iridium    | 1 µg/mL       | 125 mL | 2% HCl   | CLIR1-1BY |
| Iron       | 1 µg/mL       | 125 mL | 2% HNO <sub>3</sub>                                      | CLFE2-1BY |
| Lead       | 1 µg/mL       | 125 mL | 2% HNO <sub>3</sub>                                      | CLPB2-1BY |
| Lithium    | 1 µg/mL       | 125 mL | 2% HCl   | CLLI1-1BY |
| Lithium    | 1 µg/mL       | 125 mL | 2% HNO <sub>3</sub>                                      | CLLI2-1BY |
| Lutetium   | 1 µg/mL       | 125 mL | 2% HNO <sub>3</sub>                                      | CLLU2-1BY |
| Magnesium  | 1 µg/mL       | 125 mL | 2% HNO <sub>3</sub>                                      | CLMG2-1BY |
| Manganese  | 1 µg/mL       | 125 mL | 2% HNO <sub>3</sub>                                      | CLMN2-1BY |

## CERTIFIED REFERENCE MATERIALS

Since 1954, SPEX Europe is the industry leader in the CRM marketplace meeting the needs of laboratories worldwide with innovation and research. Accredited by A2LA to ISO/IEC 17025:2017 & ISO 17034:2016. Certified by UL-DQS, ISO 9001:2015.

# 1 PPM Single Element Standards (cont'd)

| Element      | Concentration | Volume | Matrix                              | Part #    |
|--------------|---------------|--------|-------------------------------------|-----------|
| Mercury      | 1 µg/mL       | 125 mL | 0.7% HNO <sub>3</sub> /0.4% HCl     | CLHG6-1BY |
| Molybdenum   | 1 µg/mL       | 125 mL | H <sub>2</sub> O                    | CLMO9-1BY |
| Neodymium    | 1 µg/mL       | 125 mL | 2% HNO <sub>3</sub>                 | CLND2-1BY |
| Nickel       | 1 µg/mL       | 125 mL | 2% HNO <sub>3</sub>                 | CLNI2-1BY |
| Phosphorus   | 1 µg/mL       | 125 mL | H <sub>2</sub> O                    | CLP9-1BY  |
| Platinum     | 1 µg/mL       | 125 mL | 2% HCl                              | CLPT1-1BY |
| Praseodymium | 1 µg/mL       | 125 mL | 2% HNO <sub>3</sub>                 | CLPR2-1BY |
| Ruthenium    | 1 µg/mL       | 125 mL | 2% HCl                              | CLRU1-1BY |
| Samarium     | 1 µg/mL       | 125 mL | 2% HNO <sub>3</sub>                 | CLSM2-1BY |
| Selenium     | 1 µg/mL       | 125 mL | 2% HNO <sub>3</sub>                 | CLSE2-1BY |
| Silicon      | 1 µg/mL       | 125 mL | H <sub>2</sub> O/tr. F <sup>-</sup> | CLSI9-1BY |
| Strontium    | 1 µg/mL       | 125 mL | 2% HNO <sub>3</sub>                 | CLSR2-1BY |
| Sulfur       | 1 µg/mL       | 125 mL | H <sub>2</sub> O                    | CLS9-1BY  |
| Tellurium    | 1 µg/mL       | 125 mL | 5% HCl                              | CLTE1-1BY |
| Tellurium    | 1 µg/mL       | 125 mL | 5% HNO <sub>3</sub>                 | CLTE2-1BY |
| Terbium      | 1 µg/mL       | 125 mL | 2% HNO <sub>3</sub>                 | CLTB2-1BY |
| Thorium      | 1 µg/mL       | 125 mL | 2% HNO <sub>3</sub>                 | CLTH2-1BY |
| Thulium      | 1 µg/mL       | 125 mL | 2% HNO <sub>3</sub>                 | CLTM2-1BY |
| Titanium     | 1 µg/mL       | 125 mL | H <sub>2</sub> O/tr. HF             | CLTI9-1BY |
| Tungsten     | 1 µg/mL       | 125 mL | 2% HNO <sub>3</sub> /tr. HF         | CLW2-1BY  |
| Tungsten     | 1 µg/mL       | 125 mL | H <sub>2</sub> O                    | CLW9-1BY  |
| Uranium      | 1 µg/mL       | 125 mL | 2% HNO <sub>3</sub>                 | CLU2-1BY  |
| Vanadium     | 1 µg/mL       | 125 mL | 2% HNO <sub>3</sub>                 | CLV2-1BY  |
| Ytterbium    | 1 µg/mL       | 125 mL | 2% HNO <sub>3</sub>                 | CLYB2-1BY |
| Yttrium      | 1 µg/mL       | 125 mL | 2% HNO <sub>3</sub>                 | CLY2-1BY  |
| Zinc         | 1 µg/mL       | 125 mL | 2% HCl                              | CLZN1-1BY |
| Zinc         | 1 µg/mL       | 125 mL | 2% HNO <sub>3</sub>                 | CLZN2-1BY |
| Zirconium    | 1 µg/mL       | 125 mL | 2% HNO <sub>3</sub>                 | CLZR2-1BY |

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