

Product No.: 041694 Multi-Anion Standard 2

Matrix: H₂O

Lot No.: 1459361

Expiry Date: October 31, 2025

Intended Use: This solution is intended for use as a Certified Reference Material (CRM) or calibration standard for ion chromatography (IC), or other techniques for aqueous ion detection.

lon	Certified Concentration & Uncertainty	lon	Certified Concentration & Uncertainty
CI [.]	100.1 ± 0.5 µg/mL	SO4 ⁻²	100.1 ± 0.5 µg/mL
F [.]	99.98 ± 0.50 µg/mL		

Certification & Traceability: Thermo Fisher Scientific is ISO 9001:2015 certified. This CRM was manufactured and certified by a Thermo Fisher Scientific supplier under an **ISO 9001**, **ISO/IEC 17025**, and **ISO 17034** quality management system. This CRM was prepared to the certified concentrations shown above by gravimetric methods using single-ion concentrates diluted to the certified concentration with filtered (0.22µm), 18 M-ohm deionized water. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentrations were determined based upon gravimetric procedures. Secondary verification of the certified concentrations was performed using ion chromatography (IC) or inductively coupled plasma optical emission spectroscopy (ICP-OES), which was calibrated and/or referenced against **NIST SRMs: 3182, 3183, and 3181**. The uncertainty associated with the certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the CRM's original container, (3) use a minimum sub-sample size of 500µL, (4) make dilutions using calibrated balances or certified volumetric class A flasks and pipettes, (5) dilute with the same matrix as the original CRM, and (6) never pour used product back into the original container. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or expose to direct sunlight. Minimize exposure to moisture or high humidity.

Period of Validity: Thermo Fisher Scientific guarantees the accuracy of this Specpure[®] solution until the expiry date shown above, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

5/11/2024 Certification Date

Order our products online thermofisher.com/chemicals

Page 1 of 2

This document has been electronically generated and does not require a signature.

Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third party data or information associated with the product. Products are for research and development use only. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.

Thermo Fisher SCIENTIFIC

Quality Certifications: This CRM was prepared under a quality management system that is:

- Registered to ISO 9001 Quality Management Systems Requirements (TUV NORD Cert. No. 44 100 16560231)
- Accredited to ISO 17034 General Requirements for the Competence of Reference Material Producers (A2LA Cert. No. 2848.02)
 - o ISO 17034 references additional requirements specified in ISO Guide 31 and ISO Guide 35
- Accredited ISO/IEC 17025 General Requirements for the Competence of Testing and Calibration Laboratories (A2LA Cert. No. 2848.01)

Order our products online thermofisher.com/chemicals

Page 2 of 2

This document has been electronically generated and does not require a signature.

Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third party data or information associated with the product. Products are for research and development use only. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.