

Certificate of Analysis

Product No.: 047260 Potassium Ion Chromatography Standard

Certified Concentration of K⁺: $999.6 \pm 5.0 \,\mu\text{g/mL}$ Lot No.: 1499483

Matrix: H₂O Expiry Date: March 31, 2026

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.

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 a nominal concentration of 1000 µg/mL by gravimetric methods using 99.999% pure potassium nitrate (KNO3) dissolved in and diluted 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 concentration was determined based upon gravimetric procedures. Secondary verification of the certified concentration was performed using ion chromatography (IC) or inductively coupled plasma optical emission spectroscopy (ICP-OES), which was calibrated and/or referenced against NIST SRM 3141a. 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.

10/9/2024 Certification Date

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

- Registered to ISO 9001:2015 Quality Management Systems Requirements (TÜV SÜD America Certificate Number 951 24 6017)
- 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)

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