

# Certificate of Analysis

## LITHIUM Ion Standard 1,000 µg/mL

Agilent Part Number: A7145

Lot Number: 001077366B

Analyte	CAS #	Certified Concentration and uncertainty	
Li <sup>+</sup>	554-13-2	1008 µg/mL	+/- 0.5% relative

This solution is intended for use as a calibration or reference standard for ion chromatography (IC) or techniques using other modes of aqueous ion detection.

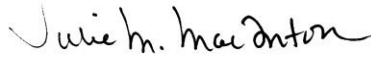
**Traceability:** This standard was manufactured and certified under a quality control system that is registered to **ISO 9001**, **ISO Guide 34** and **ISO/IEC 17025**. This standard was prepared to a nominal concentration of 1,000 µg/mL by gravimetric methods using high purity Lithium carbonate (Li<sub>2</sub>O<sub>3</sub>) dissolved and diluted with filtered (0.22µm), 18 M-ohm deionized water and packaged in acid-leached, triple-rinsed bottles. The certified concentration is based upon gravimetric procedures. The uncertainty associated with the certified concentration shown above is the sum of the estimated errors due to the purity of the raw materials, the gravimetric preparation of the solution and transpiration through the container wall. Secondary verification of the certified concentration was done by Ion Chromatography (IC).

**Tools:** Balances are calibrated regularly with weight sets traceable to NIST. All volumetric dilutions are performed in class A glassware which is recalibrated regularly according to NIST recommended procedures.

**Recommendations:** Agilent Technologies guarantees the accuracy of this solution until the expiration date shown above, provided it is kept tightly capped and stored in a refrigerator. We recommend that the analyst: (1) mix the solution by gentle shaking immediately prior to use, (2) use only pre-cleaned containers and transfer-ware, (3) make volumetric dilutions using certified class A flasks and pipettes, and, (4) dilute with the same matrix as the original standard.

Date of release: 30 September 2015

Date of expiration: 09 February 2018

  
QA Manager

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