Agilent Technologies

CERTIFICATE OF ANALYSIS

Agilent Product Name: Tellurium AA Standard: 1000 µg/mL Te in 5% HNO_3
Agilent Part No: 5190-8315
Lot No: 001207806G

Product Specifications

Analyte	Starting Material	CAS #	Matrix	Certified Concentration
Te	Te	13494-80-9	5% HNO_3	1002 ± 5 µg/mL (w/v)
				977 ± 5 µg/g (w/w)

Intended Use: This solution is intended for use as a reference material or calibration standard for atomic absorption spectroscopy (flame AAS or graphite furnace AAS), and other techniques for elemental analysis.

Certification & Traceability: This standard was manufactured under a quality management system that is accredited to **ISO/IEC 17025**, and registered to **ISO 9001**. This standard was prepared to a nominal concentration of 1000 µg/mL by gravimetric methods using high purity tellurium (Te) metal dissolved in high purity nitric acid (HNO_3) and diluted with ASTM Type I Water. The balances used in the preparation of this standard are calibrated regularly with traceability to NIST. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration is based upon the gravimetric preparation of the solution. Secondary verification of the certified concentration was done using ICP-OES and is traceable to NIST SRM 3156. The uncertainty associated with the certified concentration is the sum of the estimated errors due to purity of the raw material, gravimetric measurements and transpiration through the container wall.

Instructions for Use: Agilent Technologies recommends 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) avoid pipetting directly from the standard's original container, (3) use a minimum sub-sample size of 500 µL, (4) make dilutions using calibrated balances or certified volumetric class A flasks and pipettes, (5) dilute to volume using the same matrix as the original standard, and (6) never pour used product back into the original container. The solution should be kept tightly capped. Store at controlled room temperature per USP 35 (10.30.60). Do not freeze, heat, or expose to direct sunlight. Minimize exposure to moisture or high humidity.

Period of Validity: Agilent Technologies ensures the accuracy of this solution until the expiration date shown below, 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.

Sample lot approver:

Julie M. MacIntosh
QA Manager

Date of release: 6 December 2016
Date of expiration: 03 August 2018

Hazard Information: Refer to the Safety Data Sheet (SDS), which can be obtained at www.agilent.com/chem/sds.

Homogeneity: This solution was determined to be homogeneous by procedures consistent with the requirements of ISO Guide 34 and ISO Guide 35. Replicate samples of the finished solution were analyzed to confirm its homogeneity, in accordance with QSP 6-13 Assessment of Homogeneity and Stability. To ensure homogeneity, users should not take a smaller sub-sample than specified in the Instructions for Use, as doing so will invalidate the certified values and uncertainties.

Further Information: Please contact Agilent Technologies for further information about this CRM.

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 Guide 34 – General Requirements for the Competence of Reference Material Producers (A2LA Cert. No. 2848.02)
    - ISO Guide 34 references additional requirements specified in ISO Guide 31 and ISO Guide 35.
- Accredited to ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories (A2LA Cert. No. 2848.01)