



Certificate of Analysis

Secondary Reference Standard NIST traceable

Bromate Standard Solution 1000 mg/L (in Water)

Molecular Formula: NA
Molecular Weight: NA
Packing : 100 mL
CAS No.: NA

Lot No.: B-002
Cat No.: NIST-029
Dt. of Issue of Certificate: 07/02/2026
Dt. of Mfr: Feb 2026
Exp. Dt.: Jan 2028

TABLE :1 Certified Value

Measurand / Constituent	Certified Value	Expanded Uncertainty (K=2)
Bromate mass fraction (mg/kg)	997	± 8
Bromate Concentration (mg/L)	1000	± 8

- The Bromate Standard Solution is prepared in grade I water. One unit of this Reference Material consists of 100ml Bromate Standard Solution packed in tightly sealed white HDPE bottles. Certified value of Bromate Standard Solution along with the associated uncertainty was calculated at 95% confidence level with coverage factor $k=2$, considering major sources of uncertainty including measurement replication, instrument background, buoyancy correction.

Metrological Traceability: Certified values are traceable to the International System of units (SI) through a metrologically valid weighing process.

Measurement Method: The certified value is determined by high-precision weighing of thoroughly characterized starting materials and verified by measurement against NIST SRMs or similar CRMs in accordance with ISO/IEC 17025.

Intended use: This reference material is intended to be used as a standard for Ion Chromatography(IC) quantitative determination of Bromate and calibration of instruments.

Precautions:

- The sampling should be done using clean and dry pipette/micropipette.
- Excess sample must be rejected and must not be put back into the original bottle.
- Gloves, masks, goggles and other general precautionary measure should be used while handling the reference material.

Accreditation: Sabiha Research And Development ltd. is accredited to ISO 17025:2017.

Expiry: The validity of the standard is 2 years from date of manufacturing, However once the bottle is opened the expiry shall be one year from date of opening but with in overall shelf life of the standard.

Do not freeze, store the bottle tightly closed between 5 - 30°C at room temperature protected from light, keep container tightly closed. Do not put back unused solution into original bottle. For laboratory and industrial use only, not for Human/Animal consumption.

QC Supervisor

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