

Certificate of Analysis

Redox Standard Solution, Iodide/Triiodide

Lot Number: 2403L82

Product Number: 6595

Manufacture Date: MAR 29, 2024

Expiration Date: MAR 2025

The potential of a Platinum electrode in this solution at 25°C should be +221 mV vs. a Silver/Silver Chloride reference electrode (sat. KCl filling solution) or +420 mV vs. the Standard Hydrogen Electrode.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Potassium Iodide	7681-11-0	ACS
Boric Acid	10043-35-3	ACS
Iodine	7553-56-2	ACS
Potassium Hydroxide	1310-58-3	ACS

Test	Specification	Result
Appearance	Brown liquid	Passed
Oxidation-Reduction Potential (ORP)	211-231 mV at 25°C	215 mV at 25°C

Specification	Reference
Redox Standard Solution, Iodide-Triiodide	ASTM (D 1498)
Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.	

Part Number	Size / Package Type	Shelf Life (Unopened Container)
6595-32	1 L natural poly	12 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)



Jose Pena (03/29/2024)

Operations Manager

This document is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

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