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Certificate of Analysis

Gram's Iodine, dilute Lugol's Iodine for Gram Staining

Lot Number: 4307D24 Product Number: 3450

Manufacture Date: JUL 07, 2023

Expiration Date: DEC 2024

For In Vitro Diagnostic Use. This product is certified suitable for use in Gram staining. A recommended procedure is available in RICCA CHEMICAI COMPANY Technical Reference Document TRD05. This product may also be suitable for use in other methods.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Potassium Iodide	7681-11-0	ACS
Iodine	7553-56-2	ACS

Test	Specification	Result	NIST SRM#
Appearance	Dark brown liquid	Passed	_
Assay (vs. Sodium Thiosulfate/Starch)	0.024-0.028 N at 20°C	$0.026~\mathrm{N}$ at $20^{\circ}\mathrm{C}$	136

Specification	Reference
Lugol's Solution, Gram's Modification	EPA (SW-846) (9131)
Iodine Solution	ASTM (D 932)
Lugol's Solution, Gram's Modification	ASTM (D 5916)

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)
3450-1	4 L amber glass	18 months
3450-16	500 mL amber glass	18 months

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

Paul Brandon (07/07/2023)

Production Manager

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

This test report shall not be reproduced, except in full, without the written approval of Ricca Chemical Company.

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