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Certificate of Analysis

Reagent Alcohol, 50% (v/v)

Lot Number: 2403J53 Product Number: 2546.50

Manufacture Date: MAR 19, 2024

Expiration Date: MAR 2026

Reagent Alcohol consists of approximately 90% Ethanol, CAS No. 64-17-5, 5% Methanol, CAS No. 67-56-1, and 5% Isopropyl Alcohol, CAS No. 67-63-0

Name	CAS#	Grade	
Water	7732-18-5	ACS/ASTM/USP/EP	
Ethyl Alcohol	64-17-5	ACS	
Isopropyl Alcohol	67-63-0	ACS	
Methyl Alcohol	67-56-1	ACS	

Test	Specification	Result	
Appearance	Colorless liquid	Passed	
Assay (by Specific Gravity)	49.0-51.0 % (v/v)	50.3 % (v/v)	

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)
2546.50-1	4 L natural poly	24 months
2546.50-16	500 mL natural poly	24 months

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

Jose Pena (03/19/2024) Operations 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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