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## Certificate of Analysis

PAN Indicator, 0.3% (w/v) in Reagent Alcohol

Lot Number: 4402L20 Product Number: 5487.3

Manufacture Date: FEB 20, 2024

Expiration Date: FEB 2026

Reagent Alcohol consists of 90% Ethanol ( $C_2H_5OH$ ), CAS No. 64-17-5, 5% Methanol ( $CH_3OH$ ), CAS No. 67-56-1, and 5% Isopropyl Alcohol ( $CH_3CHOHCH_3$ ), CAS No. 67-63-0.

Name	CAS#	Grade	
Ethyl Alcohol	64-17-5	ACS	
Isopropyl Alcohol	67-63-0	ACS	
Methyl Alcohol	67-56-1	ACS	
1,2-Pyridylazo-2-naphthol	85-85-8	Indicator	

Test	Specification	Result
Appearance	Amber liquid	Passed
Suitability for Use	Deep Red (Uncomplexed Copper Passed Ions) - Yellow (Excess EDTA)	

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)
5487.3-16	500 mL amber glass	24 months
5487.3-4	120 mL amber glass	24 months

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

Paul Brandon (02/20/2024)

**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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