

Certificate of Analysis

Mixed Indicator Solution, Methyl Red-Methylene Blue

Lot Number: 1402F33

Product Number: 5164

Manufacture Date: FEB 29, 2024

Expiration Date: MAR 28, 2024

Name	CAS#	Grade
Ethyl Alcohol	64-17-5	Reagent
Methyl Alcohol	67-56-1	Reagent
Methyl Red, Sodium Salt	845-10-3	ACS
Methylene Blue Trihydrate	7220-79-3	Certified

Test	Specification	Result
Appearance	Dark green liquid	Passed
Suitability for Use	Purple (pH < 4.2) - Green (pH > 6.2)	Passed

Specification	Reference
Mixed Indicator Solution	APHA (4500-NH3 C)
Mixed Indicator	EPA (350.2)
Mixed Indicator	EPA (351.3)

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)
5164-4	120 mL natural poly	30 days

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

Heidi J Green (02/29/2024)

Operations Manager

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

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