

# Certificate of Analysis

## Methylene Blue Loeffler Formulation, Loeffler's Alkaline Methylene Blue for Staining and Differentiation of Acid Fast Organisms in Smears

**Lot Number:** 2311H04

**Product Number:** 4880

**Manufacture Date:** NOV 15, 2023

**Expiration Date:** OCT 2025

For In Vitro Diagnostic Use. This product is suitable for use in Ziehl-Neelsen staining of acid-fast organisms. A recommended procedure is available in RICCA CHEMICAL COMPANY Technical Reference Document TRD08. This product may also be suitable for use in other methods.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Ethyl Alcohol	64-17-5	Reagent
Methyl Alcohol	67-56-1	Reagent
Methylene Blue Trihydrate	7220-79-3	Certified
Potassium Hydroxide	1310-58-3	Reagent

Test	Specification	Result
Appearance	Blue liquid	Passed
UV/Visible Spectrum	To Pass Test	Passed

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)
4880-16	500 mL natural poly	24 months
4880-4	120 mL natural poly	24 months

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



Sharon Travers (11/15/2023)

Operations Manager

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

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