

# Certificate of Analysis

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

**Lot Number:** 2402C73**Product Number:** 4880**Manufacture Date:** FEB 09, 2024**Expiration Date:** JAN 2026

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         |
| Potassium Hydroxide       | 1310-58-3 | Reagent         |
| Methylene Blue Trihydrate | 7220-79-3 | Certified       |

| 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                       |

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

Jose Pena (02/09/2024)

Operations Manager

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

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