

# Certificate of Analysis

## EP Reference Solution B<sub>4</sub>, Brown Reference Solution

**Lot Number:** 2404C92**Product Number:** 2880.4**Manufacture Date:** APR 02, 2024**Expiration Date:** MAR 2025

This product is manufactured by using accurate volumetric technique according to European Pharmacopoeia specifications. The Primary Color Standards from which this product is manufactured are standardized to EP specifications and are available separately as RICCA CHEMICAL COMPANY Cat. Nos. 2210 (Red), 3110 (Yellow), and 2495 (Blue).

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Hydrochloric Acid	7647-01-0	ACS
Cobalt (II) Chloride Hexahydrate	7791-13-1	ACS
Copper Sulfate Pentahydrate	7758-99-8	ACS
Ferric Chloride Hexahydrate	10025-77-1	ACS

Test	Specification	Result
Appearance	Brown liquid	Passed

Specification	Reference
Reference solution B4	EP (2.2.2)
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)
2880.4-4	120 mL amber glass	12 months

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

Jose Pena (04/02/2024)

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.