# RICCA CHEMICAL COMPANY®

1841 Broad Street
Pocomoke City, MD 21851
http://www.riccachemical.com
1-888-GO-RICCA
customerservice@riccachemical.com

# Certificate of Analysis

## EP Reference Solution BY$_4$, Brownish-Yellow Reference Solution

**Lot Number:** 2404E10          **Product Number:** 2874

**Manufacture Date:** APR 05, 2024
**Expiration Date:** MAR 2025

The certified value reported is the prepared value based upon the method of preparation of the material. The uncertainty in the prepared value is based upon the volumetric method of preparation.

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

| Test | Specification | Result |
|------|---------------|--------|
| Appearance | Brownish-yellow liquid | Passed |

| Specification | Reference |
|---------------|-----------|
| Standard Solution BY4 (brownish-yellow) | 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) |
|-------------|---------------------|---------------------------------|
| 2874-4 | 120 mL amber glass | 12 months |

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

Jose Pena (04/05/2024)

Operations Manager

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

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