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Certificate of Analysis

Reagent Alcohol, ACS Reagent Grade Anhydrous, Absolute

Lot Number: 4205G63 Product Number: 6590 Manufacture Date: MAY 25, 2022

Expiration Date: NOV 2024

| Name | CAS# | Grade | |
|-------------------|---------|-------|--|
| Ethyl Alcohol | 64-17-5 | ACS | |
| Isopropyl Alcohol | 67-63-0 | ACS | |
| Methyl Alcohol | 67-56-1 | ACS | |

| Test | Specification | Result |
|---|-------------------|--------------|
| Appearance | Colorless liquid | Passed |
| Color (APHA) | max 10 | < 10 |
| Ethanol (Ethyl Alcohol) | 89.5-91.5 % (v/v) | 90.5 % (v/v) |
| Isopropyl Alcohol | 4.0-6.0 % (v/v) | 5.0 % (v/v) |
| Methanol (Methyl Alcohol) | 4.0-5.0 % (v/v) | 4.5 % (v/v) |
| Residue after evaporation (Non-Volatile Matter) | max 0.001 % | < 0.0001 % |
| Water (H ₂ O) | max 0.5 % | 0.02 % |

| Specification | Reference |
|-----------------|-----------|
| Respont Alcohol | ACS (N/A) |

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) |
|-------------|---------------------|---------------------------------|
| 6590-2.5 | 10 L Cubitainer® | 36 months |

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

Paul Brandon (05/25/2022)

Production 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.

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