

# Certificate of Analysis

**Isopropyl Alcohol, 70% (v/v)****Lot Number:** 2810845**Product Number:** 4210**Manufacture Date:** OCT 03, 2018**Expiration Date:** SEP 2020

This product is intended for laboratory cleaning and disinfection purposes and is typically used for disinfection of surfaces. All components of this product are filtered as part of the manufacturing process. The residue after evaporation is typically 0.001% (10 ppm) maximum at the time of manufacturing. A culture/colony count of 1 CFU/mL, or less, is typical for the water at the time of manufacturing.

Name	CAS#	Grade
Isopropyl Alcohol	67-63-0	ACS/USP
Water	7732-18-5	ACS/ASTM/USP/EP

Test	Specification	Result
Appearance	Colorless liquid	Passed
Assay (by Specific Gravity)	68-72 % (v/v)	70 % (v/v)
Specific Gravity at 20°C	0.874-0.882	0.877

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)
4210-5	20 L Cubitainer®	24 months
4210-55	55 gal drum	24 months
4210-5HP	20 L Ropak™	24 months

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

Andy Baumgartner (10/03/2018)

Quality Control Supervisor

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

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