

# Certificate of Analysis

**Boric Acid, 4% (w/v)**

**Lot Number:** 4403K76

**Product Number:** 1068

**Manufacture Date:** MAR 19, 2024

**Expiration Date:** MAR 2026

Certified to be Ammonia Nitrogen-free and suitable as the Ammonia Absorbent Solution to collect the Ammonia Distillate in Kjeldahl Nitrogen determinations where this concentration of Boric Acid in water is required.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Boric Acid	10043-35-3	ACS

Test	Specification	Result	NIST SRM#
Appearance	Colorless liquid	Passed	
Assay (vs. Sodium Hydroxide/Phenolphthalein)	3.94-4.06 % (w/v)	4.03 % (w/v)	84

Specification	Reference
---------------	-----------

Boric Acid Solution (40 g/L)

ASTM (D 3228)

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)
1068-1	4 L natural poly	24 months
1068-32	1 L natural poly	24 months
1068-5	20 L Cubitainer®	24 months

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



Paul Brandon (03/19/2024)

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.