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

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Certificate of Analysis

Ammonium Hydroxide, ACS Reagent Grade

Lot Number: 2404D00 Product Number: RABA0020

Chemical Formula: NH₄OH Formula weight: 35.05 Date Packaged: APR 02, 2024

Expiration Date: JAN 2026

Contains

NH₄OH CAS No. 1336-21-6 MW 35.05

Test	Specification	Result
Appearance	Colorless liquid	Passed
Assay	28.0-30.0 % NH ₃	29.0 % NH ₃
Carbon Dioxide (CO ₂)	max 0.002 %	< 0.002 %
Chloride (Cl)	max 0.5 ppm	< 0.5 ppm
Heavy Metals (as Pb)	max 0.5 ppm	< 0.5 ppm
Iron (Fe)	max 0.2 ppm	< 0.2 ppm
Nitrate (NO ₃)	max 2 ppm	< 2 ppm
Phosphate (PO ₄)	max 2 ppm	< 2 ppm
Residue after Ignition	max 0.002 %	< 0.002 %
Substances Reducing Permanganate	To Pass Test	Passed
Sulfate (SO ₄)	max 2 ppm	< 2 ppm

Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document traceability and production history for each lot manufactured

Part Number	Size / Package Type	Shelf Life (Unopened Container)
RABA0020-2.5D1	$2.5~\mathrm{L~glass}$	24 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.

Version: 1.3 Lot Number: 2404D00 Product Number: RABA0020 Page 1 of 1