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

## Certificate of Analysis

Ammonium Hydroxide, ACS Reagent Grade

Lot Number: 2105E50 Product Number: RABA0020

Date Packaged: MAY 19, 2021 Expiration Date: JAN 2023

Chemical Formula:  $NH_4OH$  Formula weight: 35.05

## Contains

NH<sub>4</sub>OH CAS No. 1336-21-6 MW 35.05

Test	Specification	Result
Appearance	Colorless liquid	Passed
Assay	$28.0 \text{-} 30.0~\%~\mathrm{NH_{\scriptscriptstyle 3}}$	$28.7~\%~\mathrm{NH_{_3}}$
Carbon Dioxide (CO <sub>2</sub> )	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 <sub>3</sub> )	max 2 ppm	2 ppm
Phosphate (PO <sub>4</sub> )	max 2 ppm	2 ppm
Residue after Ignition	max 0.002 %	0.002 %
Substances Reducing Permanganate	To Pass Test	Passed
Sulfate (SO <sub>4</sub> )	max 2 ppm	2 ppm
Balances are calibrated regularly with weights certific documents that assure manufacture according to manufactured.		ass standard. All products are prepared according to master document traceability and production history for each lot

Part Number	Size / Package Type	Shelf Life (Unopened Container)
RABA0020-500D1	500 mL glass	36 months

Recommended Storage:  $15^{\circ}\text{C} - 30^{\circ}\text{C} (59^{\circ}\text{F} - 86^{\circ}\text{F})$ 

Kerry Kingsbury (05/19/2021)

Kerry Kingebray

Quality Control Supervisor

This Certificate of Analysis 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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