

Date Packaged: JAN 11, 2024

Expiration Date: OCT 2025

## **Certificate of Analysis**

## Ammonium Hydroxide, ACS Reagent Grade

Lot Number: 2401F03

Product Number: RABA0020

Chemical Formula: NH<sub>4</sub>OH 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	$28.0-30.0 \ \% \ \mathrm{NH_3}$	29.1 % NH <sub>3</sub>
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 <sub>3</sub> )	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 callorated 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	$2.5 \mathrm{L}\mathrm{glass}$	24 months	
Recommended Storage: 15°C - 30°C (59°F - 86°F)			

Jose Pena (01/11/2024) Operations Manager This document is designed to comply with ISO Guide 31 "Reference Materials --Contents of Certificates and Labels."

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