



### CERTIFICATE OF ANALYSIS

Product Name	Ammonium Hydroxide
Grade	ACS Grade
Catalog #	282000ACS
Item #	100993
Batch #	220322-B013067
Date of Manufacture:	11/09/2021
Recommended Retest Date:	11/08/2024
Customer PO #	P21380
Packaging Type	Case Glass 6x2.5 L

TEST	MONO-GRAPH	SPECIFICATION	RESULT	UNITS
Appearance	ACS	Passes Test	Pass	N/A
Assay (NH <sub>3</sub> , w/w)	ACS	28.0 - 30.0%	29.30	%
Chloride (Cl)	ACS	0.5 ppm max.	LT 0.5 ppm	N/A
Carbon Dioxide (CO <sub>2</sub> )	ACS	0.002% max.	LT 0.002%	N/A
Iron (Fe)	ACS	0.2 ppm max.	LT 0.2 ppm	N/A
Nitrate (NO <sub>3</sub> )	ACS	2 ppm max.	LT 2 ppm	N/A
Heavy Metals (by ICP-OES)	ACS	0.5 ppm max.	LT 0.5 ppm	N/A
Phosphate (PO <sub>4</sub> )	ACS	2 ppm max.	LT 2 ppm	N/A
Residue after Ignition	ACS	0.002% max.	LT 0.002%	N/A
Sulfate (SO <sub>4</sub> )	ACS	2 ppm max.	LT 2 ppm	N/A
Substances Reducing Permanganate	ACS	Passes Test	Pass	N/A

#### Certification and Compliance Statements

This product is not derived, nor does it come in contact with, any materials derived from bovine or other animal sources.

This product is for further commercial manufacturing, laboratory or research use, and may be used as a process solvent for pharmaceutical purposes. It is not intended for use as an active ingredient in drug



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manufacturing nor as a medical device or disinfectant. Appropriate/legal use of this product is the responsibility of the user.

This lot of Ammonium Hydroxide complies with all of the current requirements listed in the American Chemical Society monograph. Certain test data have been supplied by third parties.

**This document was electronically signed by Gabriella Scoca on 4/22/2022 2:32:45 PM to indicate Quality Assurance Approval and to release this batch.**