

## CERTIFICATE OF ANALYSIS

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by TUV SUD America Inc.  
 Certificate Number. 951001163

Catalogue Number	033285
Lot Number	Q16L002
Description	Ammonium hydroxide, ACS, 28.0-30.0% NH <sub>3</sub>
CAS Number	1336-21-6
Quality Test/Release Date	16/Apr/2025
Suggested retest date	16/Apr/2028
Country of Origin	United States

Result Name	Units	Specifications	Test Value
Assay (unspecified)	%	28.0-30.0% NH <sub>3</sub>	29.88
Appearance (Color)		Colorless	Colorless
Form		Liquid	Liquid
Residue on ignition	%	0.002%	0.0005
Impurity content	ppm	Cl 0.5ppm	<0.2
Impurity content	%	CO <sub>2</sub> 0.002%	0.0001
Impurity content	ppm	Fe 0.2ppm	<0.02
Impurity content	ppm	NO <sub>3</sub> 2ppm	<1
Impurity content	ppm	PO <sub>4</sub> 2ppm	<1
Impurity content		Substances reducing permanganate P.T.	Passes test
Impurity content	ppm	Sulfate (SO <sub>4</sub> ) 2ppm	<1
Trace Metals	ppm	(as Pb) 0.5ppm	<0.05



Luis Perez  
 Interim Director Quality, LCD

Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third-party data or information associated with the product. Products are for research and development use only. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of the catalogue number listed above.