

## CERTIFICATE OF ANALYSIS

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by Intertek Global  
 Certificate Number: CERT-0120633

Catalogue Number	A669
Lot Number	261418
Description	AMMONIUM HYDROXIDE, CERTIFIED A.C.S. PLUS
CAS Number	1336-21-6,7732-18-5
Quality Test/Release Date	12/Jun/2026
Expiration Date	08/Mar/2028
Country of Origin	United States
Declaration of Origin	Inorganic-non animal
BSE/TSE	This product does not contain and is not manufactured with raw material ingredients derived from any animal products, including countries where Bovine Spongiform Encephalopathy (BSE) is known to exist.

Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear and colorless
ALUMINUM	ppm	<= 0.3	0.006
ARSENIC AND ANTIMONY	ppm	<= 0.05	<0.0003
ASSAY	w/w %	Inclusive Between 28.0 - 30.0	29.7
BORON (B)	ppm	<= 0.1	0.003
CALCIUM (Ca)	ppm	<= 0.3	0.02
CARBON DIOXIDE	%	<= 0.002	<0.002
CHLORIDE	ppm	<= 0.5	<0.5
CHROMIUM (Cr)	ppm	<= 0.2	0.0001
COPPER (Cu)	ppm	<= 0.1	0.0001
GOLD (Au)	ppm	<= 0.3	<0.0005
HEAVY METALS BY ICP-OES	ppm	<= 0.5	0.004
IRON (Fe)	ppm	<= 0.1	0.002
LEAD (Pb)	ppm	<= 0.2	<0.0001
MAGNESIUM (Mg)	ppm	<= 0.3	0.004
MANGANESE (Mn)	ppm	<= 0.2	0.0002
NICKEL (Ni)	ppm	<= 0.1	<0.0002
NITRATE (NO3)	ppm	<= 2	<2
PHOSPHATE (PO4)	ppm	<= 0.4	<0.4
POTASSIUM (K)	ppm	<= 0.3	0.002
RESIDUE AFTER IGNITION	ppm	<= 3	<1
SODIUM (Na)	ppm	>= 0	0.5
SUBSTANCES REDUCING KMNO4	PASS/FAIL	= PASS TEST	PASS TEST
SULFATE (SO4)	ppm	<= 2	<2
TIN (Sn)	ppm	<= 0.3	0.0007
TITANIUM (Ti)	ppm	<= 0.3	0.0006
ZINC (Zn)	ppm	<= 0.3	<0.005

Additional Information This product is free from genetically modified substances and is gluten free.

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.



Ash Frey  
Supervisor, Quality Control

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 use or further manufacturing. 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.

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