

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	254205
Description	AMMONIUM HYDROXIDE, CERTIFIED A.C.S. PLUS
CAS Number	1336-21-6
Quality Test/Release Date	12/Sep/2025
Suggested retest date	01/Aug/2027
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	0.01
ARSENIC AND ANTIMONY	ppm	<= 0.05	<0.0003
ASSAY	w/w %	Inclusive Between 28.0 - 30.0	29.5
BORON (B)	ppm	<= 0.1	<0.001
CALCIUM (Ca)	ppm	<= 0.3	0.04
CARBON DIOXIDE	%	<= 0.002	<0.002
CHLORIDE	ppm	<= 0.5	<0.5
CHROMIUM (Cr)	ppm	<= 0.2	0.0002
COPPER (Cu)	ppm	<= 0.1	0.0002
GOLD (Au)	ppm	<= 0.3	<0.0005
HEAVY METALS (as Pb)	ppm	<= 0.5	0.003
IRON (Fe)	ppm	<= 0.1	0.0003
LEAD (Pb)	ppm	<= 0.2	<0.0001
MAGNESIUM (Mg)	ppm	<= 0.3	0.008
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	<3
SODIUM (Na)	ppm	>= 0	0.063
SUBSTANCES REDUCING KMNO4	PASS/FAIL	= PASS TEST	PASS TEST
SULFATE (SO4)	ppm	<= 2	<2
TIN (Sn)	ppm	<= 0.3	<0.0001
TITANIUM (Ti)	ppm	<= 0.3	0.0005
ZINC (Zn)	ppm	<= 0.3	0.008

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



Harout Sahagian
Manager, QC • Laboratory Products Group

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.

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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