

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	A687
Lot Number	256815
Description	AMMONIUM CHLORIDE, USP/FCC/EP
CAS Number	12125-02-9
Quality Test/Release Date	18/Mar/2026
Suggested retest date	31/Aug/2028
Country of Origin	India
Declaration of Origin	Inorganic
BSE/TSE	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.

Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	White crystalline powder
EP Grade - ACIDITY OR ALKALINTY	PASS/FAIL	= PASS TEST	PASS TEST
EP Grade - APPEARANCE OF SOLUTION	PASS/FAIL	= CLEAR AND COLORLESS	CLEAR AND COLORLESS
EP Grade - ASSAY	%	Inclusive Between 99.0 - 100.5	99.7
EP Grade - BROMIDE & IODIDE	PASS/FAIL	= PASS TEST	PASS TEST
EP Grade - CALCIUM (Ca)	ppm	<= 200	<10
EP Grade - EPSOLUBILITY	PASS/FAIL	= PASS TEST	PASS TEST
EP Grade - IDENTIFICATION (ALL LISTED)	PASS/FAIL	= PASS TEST	PASS TEST
EP Grade - IRON	ppm	<= 20	<2
EP Grade - LOSS ON DRYING PER EP	%	<= 1.0	0.7
EP Grade - RESIDUAL SOLVENTS	PASS/FAIL	= PASS TEST	PASS TEST
EP Grade - SULFATED ASH	%	<= 0.1	0.0398
EP Grade - SULFATES	ppm	<= 150	<20
FCC Grade - ASSAY	%	>= 99.0	99.8
FCC Grade - IDENTIFICATION (ALL LISTED)	PASS/FAIL	= PASS TEST	PASS TEST
FCC Grade - LEAD (Pb)	MG/KG	<= 4	<4
FCC Grade - LOSS ON DRYING PER FCC	%	<= 0.5	0.22
USP Grade - ASSAY	%	Inclusive Between 99.5 - 100.5	99.9
USP Grade - IDENTIFICATION (ALL LISTED)	PASS/FAIL	= PASS TEST	PASS TEST
USP Grade - IGNITION RESIDUE	%	<= 0.1	0.0398
USP Grade - LIMIT OF THIOCYANATE	PASS/FAIL	= PASS TEST	PASS TEST
USP Grade - LOSS ON DRYING	%	<= 0.5	0.22
USP Grade - RESIDUAL SOLVENTS	PASS/FAIL	= PASS TEST	PASS TEST
USP Grade - pH OF A 5% SOLUTION		Inclusive Between 4.6 - 6.0	5.36

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.



Harout Sahagian
QC Manager

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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