

Certificate of Analysis

1 Reagent Lane	
Fair Lawn, NJ 07410	
201.796.7100 tel	Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System
201.796.1329 fax	Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120633

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	A115	Quality Test / Release Date	06/22/2023		
Lot Number	226467				
Description	AMMONIUM FORMATE (NH4COOH), OPTIMA LC/MS GRADE				
Country of Origin	Israel	Suggested Retest Date	Mar/2026		
BSE/TSE Comment	This material provides no risk of TSE/BSI	Ξ.			

N/A					
Result Name	Units	Specifications	Test Value		
APPEARANCE		REPORT	White fine crystals with lumps		
ASSAY	%	>= 99	100.0		
CHLORIDE	%	<= 0.001	<0.001		
HPLC - UV GRADIENT SUITABILITY PDA (200 - 400 nm)	mAU	<= 2	<2		
IDENTIFICATION	PASS/FAIL	IN PASS TEST	PASS TEST		
IONIC IMPURITY - ALUMINUM (AI)	ppb	<= 20	<1		
IONIC IMPURITY - CALCIUM (Ca)	ppb	<= 50	<1		
IONIC IMPURITY - COPPER (Cu)	ppb	<= 10	<1		
IONIC IMPURITY - IRON (Fe)	ppb	<= 10	<1		
IONIC IMPURITY - LEAD (Pb)	ppb	<= 10	<1		
IONIC IMPURITY - MAGNESIUM (Mg)	ppb	<= 10	<1		
IONIC IMPURITY - MANGANESE (Mn)	ppb	<= 10	<1		
IONIC IMPURITY - NICKEL (Ni)	ppb	<= 10	<1		
IONIC IMPURITY - POTASSIUM (K)	ppb	<= 20	<1		
IONIC IMPURITY - SILVER (Ag)	ppb	<= 10	<1		
IONIC IMPURITY - SODIUM (Na)	ppb	<= 50	<1		
IONIC IMPURITY - ZINC (Zn)	ppb	<= 20	<1		
LCMS SUITABILITY - POS. MODE (AS PROPAZINE)	PASS/FAIL	IN PASS TEST	PASS TEST		
OPTICAL ABS AT 210 NM	ABS. UNITS	<= 0.85	0.048		
OPTICAL ABS AT 220 NM	ABS. UNITS	<= 0.3	0.015		
OPTICAL ABS AT 230 NM	ABS. UNITS	<= 0.05	0.005		
OPTICAL ABS AT 254 NM	ABS. UNITS	<= 0.01	0.001		
OPTICAL ABS AT 280 NM	ABS. UNITS	<= 0.005	<0.005		
PH OF 0.1% AQUEOUS SOLUTION		Inclusive Between 6.0 - 7.0	6.4		

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above. If there are any questions with this certificate, please call at (800) 227-6701. *Based on suggested storage condition.



WATER (H2O)

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<= 2

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PROTEASE		PASS/FAIL	IN NOT DETECTED	NOT DETECTED		
RESIDUE AFTER IGNITION		%	<= 0.005	<0.005		
SULFATE (SO4)		%	<= 0.005	<0.005		

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Harout Sahagian - Quality Control Supervisor - Fair Lawn

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