

Certificate of Analysis

1 Reagent Lane
 Fair Lawn, NJ 07410
 201.796.7100 tel
 201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System
 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	07/23/2024
Lot Number	243448		
Description	AMMONIUM FORMATE (NH ₄ COOH), OPTIMA LC/MS GRADE		
Country of Origin	China	Suggested Retest Date	Jul/2029
BSE/TSE Comment	This material provides no risk of TSE/BSE.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	White fine crystals with lumps
ASSAY	%	>= 99	100.5
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 (Al)	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	0.803
OPTICAL ABS AT 220 NM	ABS. UNITS	<= 0.3	0.242
OPTICAL ABS AT 230 NM	ABS. UNITS	<= 0.05	0.046
OPTICAL ABS AT 254 NM	ABS. UNITS	<= 0.01	<0.01
OPTICAL ABS AT 280 NM	ABS. UNITS	<= 0.005	0.001
PH OF 0.1% AQUEOUS SOLUTION		Inclusive Between 6.0 - 7.0	6.448

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.

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PROTEASE	PASS/FAIL	IN NOT DETECTED	NOT DETECTED
RESIDUE AFTER IGNITION	%	<= 0.005	0.002
SULFATE (SO4)	%	<= 0.005	<0.005
WATER (H2O)	%	<= 2	1.7



Harout Sahagian - Quality Control Manager - Fair Lawn

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