



## Certificate of Analysis

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ThermoFisher Scientific's Quality System has been found to conform to Quality Management System  
Standard ISO9001:2008 standard by SAI Global Certificate Number CERT - 0090918

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. ThermoFisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Certain products (USP/FCC/NF/EP/BP/JP grades) are sold for use in food, drug, or medical device manufacturing. ThermoFisher does not maintain DMF's with the FDA. The following are the actual analytical results obtained:

Catalog Number	A61	Quality Test / Release Date	06/21/2018
Lot Number	181977		
Description	L-ASCORBIC ACID, A.C.S.		
Country of Origin	China	Suggested Retest Date	Jun/2023
Chemical Origin	Organic - non animal		
BSE/TSE Comment	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. This product has been tested and certified to be free of BSE-TSE.		
Chemical Comment			

Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	White crystalline powder
SPECIFIC ROTATION @ 25 C	DEGREES (+ OR -)	Inclusive Between +20.5 - +21.5	21.0
IRON (Fe)	%	<= 0.001	<0.001
ASSAY	%	>= 99.0	100.5
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
HEAVY METALS (as Pb)	%	<= 0.002	<0.002
IGNITION RESIDUE	%	<= 0.1	0.01

*Jerisa Bailey-Wyche*

Quality Assurance Specialist - Certificate of Analysis Fair Lawn

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.