

## Certificate of Analysis

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Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System  
 Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

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	42458	Quality Test / Release Date	03/04/2022
Lot Number	B0152629		
Description	UREA, REAGENT ACS		
Country of Origin	United States	Suggested Retest Date	Mar/2027
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.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	White Crystals
ASSAY	%	Inclusive Between 99.0 - 100.5	99.70
CHLORIDE	ppm	<= 5	<5
HEAVY METALS BY ICP-OES	ppm	<= 10	<10
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
INSOLUBLE MATTER	%	<= 0.01	<0.01
IRON (Fe)	ppm	<= 10	<10
MELTING POINT	DEGREES CELSIUS	Inclusive Between 132 - 135	134
RESIDUE AFTER IGNITION	%	<= 0.01	0.01
SULFATE (SO4)	ppm	<= 10	<10



Julian Burton - Quality Control Manager – 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.