

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 – 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	BP169	Quality Test / Release Date	09/15/2023
Lot Number	234123		
Description	UREA		
Country of Origin	China	Suggested Retest Date	Jun/2024
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	Colorless to White Crystals or Crystalline Powder
ABSORBANCE 5M SOL AT 280NM	ABSORBANCE UNITS	<= 0.05	0.01
ASSAY	%	>= 99	99.8
BIURET TEST	%	<= 0.1	0.07
CNO IN PPM	ppm	<= 5	3
COPPER (Cu)	ppm	<= 1	<1
DNASE	DETECTED/NOT DETECT.	= NOT DETECTED	NOT DETECTED
HEAVY METALS (as Pb)	ppm	<= 5	<5
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
INSOLUBLE MATTER	PASS/FAIL	= PASS TEST	PASS TEST
IRON (Fe)	ppm	<= 2	<2
MELTING POINT	DEGREES CELSIUS	Inclusive Between 132 - 135	133
PROTEASE	DETECTED/NOT DETECT.	= NOT DETECTED	NOT DETECTED
RNASE	DETECTED/NOT DETECT.	= NOT DETECTED	NOT DETECTED



Harout Sahagian - Quality Control Supervisor - 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.