



## 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	D19	Quality Test / Release Date	01/31/2023
Lot Number	224874		
Description	DEXTROSE (D-GLUCOSE), ANHYDROUS USP/EP/BP/JP		
Country of Origin	China	Suggested Retest Date	Oct/2024
Chemical Origin	Organic - Plant		
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.		

Japanese Pharmacopeia Grade			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	White, crystalline powder
ACIDITY	PASS/FAIL	IN PASS TEST	PASS TEST
ARSENIC	ppm	<= 1.3	<1.3
ASSAY	%	>= 99.5	99.9
CHLORIDE	%	<= 0.018	<0.018
CLARITY & COLOR OF SOLUTION	PASS/FAIL	IN PASS TEST	PASS TEST
DEXTRINS	PASS/FAIL	= PASS TEST	PASS TEST
HEAVY METALS	ppm	<= 4	2
IDENTIFICATION (ALL LISTED)	PASS/FAIL	IN PASS TEST	PASS TEST
LOSS ON DRYING PER JP	%	<= 1.0	0.09
RESIDUE ON IGNITION	%	<= 0.1	0.008
SOLUBLE STARCH, SULFITES	PASS/FAIL	IN PASS TEST	PASS TEST
SULFATE	%	<= 0.024	<0.024

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	White, crystalline powder
APPEARANCE OF SOLUTION (EP/BP)	CLEAR SOLUTION	IN CLEAR SOLUTION	CLEAR SOLUTION
ASSAY (ANHYDROUS SUBSTANCE) (EP/BP)	%	Inclusive Between 97.5 - 102.0	99.9
DEXTRINS (EP/BP)	PASS/FAIL	IN PASS TEST	PASS TEST
DISREGARD LIMIT (EP/BP)	%	<= 0.05	<0.05
EP/BP CONDUCTIVITY (EP/BP)	uS/cm	<= 20	1.551
EPSOLUBILITY (EP/BP)	FREELY SOL. IN WATER	IN FREELY SOLUBLE IN WATER	FREELY SOLUBLE IN WATER

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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IDENTIFICATION (ALL LISTED) (EP/BP)	PASS/FAIL	IN PASS TEST	PASS TEST
IMPURITY C (EP/BP)	%	<= 0.2	<0.2
IMPURITY D (EP/BP)	%	<= 0.15	<0.15
IMPURITY SUM OF A AND B (EP/BP)	%	<= 0.4	<0.4
SOLUBLE STARCH, SULFITE (EP/BP)	ppm	<= 15	<15
TOTAL IMPURITIES (EP/BP)	%	<= 0.5	<0.5
TOTAL UNSPECIFIED IMPURITIES (EP/BP)	%	<= 0.10	<0.1
WATER (EP/BP)	%	<= 1.0	0.2

USP Grade			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	White, crystalline powder
ASSAY	%	Inclusive Between 97.5 - 102.0	99.9
COLOR AND CLARITY OF SOLUTION	PASS/FAIL	IN PASS TEST	PASS TEST
CONDUCTIVITY	uS/cm	<= 20	1.551
DEXTRIN	PASS/FAIL	IN PASS TEST	PASS TEST
IDENTIFICATION (ALL LISTED)	PASS/FAIL	IN PASS TEST	PASS TEST
RESIDUAL SOLVENTS	PASS/FAIL	IN PASS TEST	PASS TEST
SOLUBLE STARCH, SULFITES	ppm	<= 15	<15
USP FRUCTOSE IMPURITIES	%	<= 0.15	<0.15
USP MALTOSE AND ISOMALTOSE IMPURITIES	%	<= 0.4	<0.4
USP MALTOTRIOSE IMPURITIES	%	<= 0.2	<0.2
USP TOTAL IMPURITY	%	<= 0.5	<0.5
USP UNSPECIFIED IMPURITIES	%	<= 0.10	<0.10
WATER	%	<= 1.0	0.2

Residual Solvents	There is no potential for any Class 1, 2 or 3 solvents to be present in this product. No Residual Solvents are used in the manufacturing process, handling or storage of this product, and if tested will meet the requirement.
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Harout Sahagian - Quality Control Supervisor - Fair Lawn

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