DCN: BSI-COA-0098 v.4.2



100 Majestic Way, Bangor, PA 18013 / www.biospectra.us

Effective Date:	02-Apr-2025	02-Apr-2028	: Date of Next Review
Prepared By:	Amy Yencho	BSI-COA-0098 v.4.1	: Supersedes
QA/QC Approval:	Carissa Albert	Krista Rehrig	: Management Approval
Reason for Revision:	See Revision History in MasterControl		

CERTIFICATE OF ANALYSIS D-GALACTOSE, PLANT DERIVED BIO EXCIPIENT GRADE / GALP-3250

LOT: GALP-E06-0425-0006

C₆H₁₂O₆ **\(\(\)** F.W. 180.16 g/mol. **\(\)** CAS# 59-23-4

Manufacturing Date: 8/23/24 Retest Date: 8/31/26 Manufacturing Site: 100 Majestic Way, Bangor PA, 18013 Packaging Site: 100 Majestic Way, Bangor PA, 18013 Meets or Exceeds EP and NF Specifications

EP COMPENDIA					
Analysis		SPECIFICATION	TEST RESULT		
Acidity or Alkalinity		Passes Test	Passes Test		
Appearance		White to almost white, crystalline powder	White to almost white, crystalline powder		
Appearance of Solution		Passes Test	Passes Test		
Assay, Anhydrous Basis		97.0 - 102.0%	100.0 %		
Barium		Passes Test	Passes Test		
Identification A		Passes Test	Passes Test		
Identification B		Passes Test	Passes Test		
Identification C		Passes Test	Passes Test		
Microbial Content	TAMC	$\leq 100 \text{ CFU/g}$	< 10 CFU/g		
Proteins		$\leq 0.1 \text{ mg/mL}$	< 0.1 mg/ml		
Imp	ourities A and B	≤ 1.0%	0.05 %		
Related Substances	Unspecified Impurities	≤ 0.3% each	< 0.05 %		
r	Γotal Impurities	≤ 2.0%	0.05 %		
Sulfated Ash		≤ 0.1%	< 0.1 %		
Water		≤ 1.0%	0.4 %		

		NF COMPENDIA	
Analysis		SPECIFICATION	TEST RESULT
Acidity		Passes Test	Passes Test
Appearance of Solution		Passes Test	Passes Test
Assay, Anhydi	rous Basis	98.0-102.0%	100.0%
Barium		Passes Test	Passes Test
Identification A	Å	Passes Test	Passes Test
Identification l	В	Passes Test	Passes Test
Identification (C	Passes Test	Passes Test
Limit of Lead		≤ 0.5 ppm	< 0.005 ppm
Escherichia coli		Absent	Absent
	Pseudomonas aeruginosa	Absent	Absent
n n n n n n n n n n n n n n n n n n n	Salmonella species	Absent	Absent
	Staphylococcus aureus	Absent	Absent
	TAMC	$\leq 1000 \text{ CFU/g}$	< 10 CFU/g
TYMC		$\leq 100 \text{ CFU/g}$	< 10 CFU/g
Lactose and 1,6-galactosylgalactose		≤0.6%	0.05%
G	Galacturonic acid	≤0.6%	< 0.05%
	Dextrose	≤0.6%	< 0.05%
Related	Tagatose	≤0.6%	< 0.05%
Substances Any us	Dulcitol	≤0.6%	< 0.05%
	Arabinose	≤0.6%	< 0.05%
	Any unspecified impurity	≤0.2%	< 0.05%
	Total Impurities	≤1.0%	0.05%
Residue on Ignition		≤ 0.1%	< 0.1%
Optical Rotation, Specific Rotation		+78.0° to +81.5°	+80.7°
Water		≤ 1.0%	0.4%

ADDITIONAL ANALYSES					
Analysis	SPECIFICATION	TEST RESULT			
Endotoxins	≤2.5 EU/g	< 1.0 EU/g			
Glucose	≤ 0.1%	< 0.05%			
Lead	\leq 0.5 ppm	< 0.005 ppm			
Residual Ethanol	≤ 500 ppm	< 240 ppm			
Residual Isopropanol	≤ 5000 ppm	< 2530 ppm			
Residual Methanol	≤ 100 ppm	< 80 ppm			
Residual Methyl Isobutyl Ketone	≤ 500 ppm	< 250 ppm			

COUNTRY OF ORIGIN: U.S.A.

TEST METHOD REFERENCE: DCN: BSI-ATM-0026

<u>INTENDED USE:</u> Material represented by this Certificate of Analysis is suitable for use as an excipient. It is manufactured in accordance with the ICH Q7 Good Manufacturing Practice Guide. The material represented by this Certificate of Analysis is not suitable to be used as an Active Pharmaceutical Ingredient, Drug Product or Household Item.

Prepared by: (h	Date: 4/11/25	Job Title: QA TEA
Reviewed by:	Date: 4116/25	Job Title: GATECH III

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