DCN: BSI-COA-0098 v.4.2



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

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	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-E06-0525-0028

C₆H₁₂O₆ → F.W. 180.16 g/mol. → CAS# 59-23-4

Manufacturing Date: 05/28/25 Retest Date: 05/31/27 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%	99.9 %					
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 mg/mL	< 0.1 mg/ml					
Impurities A and B	≤ 1.0%	< 0.05 %					
Related Unspecified Substances Impurities	≤ 0.3% each	< 0.05 %					
Total Impurities	$\leq 2.0\%$	< 0.05 %					
Sulfated Ash	≤ 0.1% < 0.1 %						
Water	≤ 1.0% 0.3 %						

		NF COMPENDIA	
	Analysis	SPECIFICATION	TEST RESULT
Acidity		Passes Test	Passes Test
Appearance	of Solution	Passes Test	Passes Test
Assay, Anhy	drous Basis	98.0-102.0%	99.9%
Barium		Passes Test	Passes Test
Identification	n A	Passes Test	Passes Test
Identification	пВ	Passes Test	Passes Test
Identification	n C	Passes Test	Passes Test
Limit of Lead	d	≤ 0.5 ppm	< 0.005 ppm
	Escherichia coli	Absent	Absent
	Pseudomonas aeruginosa	Absent	Absent
Microbial	Salmonella species	Absent	Absent
Content	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%
	Galacturonic acid	≤0.6%	< 0.05%
	Dextrose	≤0.6%	< 0.05%
Related	Tagatose	≤0.6%	< 0.05%
Substances	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 Is	gnition	≤ 0.1%	< 0.1%
Optical Rotat	tion, Specific Rotation	+78.0° to +81.5°	+80.7°
Water		≤ 1.0%	0.3%

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	ADDITIONAL ANALYSES	l 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	< 100 ppm			
Residual Isopropanol	≤ 5000 ppm	< 2520 ppm			
Residual Methanol	≤ 100 ppm	< 50 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: Man McCall	Date:	11/19/25	Job Title:	QA Tech III
Reviewed by: Onon Broh		,		QA Supervisor
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