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-E06-0725-0044

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

Manufacturing Date: 07/23/25 Retest Date: 07/31/27 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%	99.6 %				
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				
Impurities A and B	≤ 1.0%	< 0.05 %				
Related Unspecified Substances Impurities	$\leq 0.3\%$ each	< 0.05 %				
Total Impurities	≤ 2.0%	< 0.05 %				
Sulfated Ash	≤ 0.1%	< 0.1 %				
Water	≤ 1.0%	0.2 %				

NF COMPENDIA					
	Analysis	SPECIFICATION	TEST RESULT		
Acidity		Passes Test	Passes Test		
Appearance o	f Solution	Passes Test	Passes Test		
Assay, Anhyd	lrous Basis	98.0-102.0%	99.6%		
Barium		Passes Test	Passes Test		
Identification A		Passes Test	Passes Test		
Identification	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		
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-galactosyl- galactose		≤0.6%	< 0.05%		
G	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 Ig	nition	≤ 0.1%	< 0.1%		
Optical Rotati	ion, Specific Rotation	+78.0° to +81.5°	+80.4°		
Water		≤ 1.0%	0.2%		

DCN: BSI-COA-0098 v.4.2

ADDITIONAL ANALYSES						
Analysis	SPECIFICATION	Test Result				
Endotoxins	≤2.5 EU/g	< 1.0 EU/g				
Glucose	≤ 0.1%	< 0.05%				
Lead	≤ 0.5 ppm	< 0.005 ppm				
Residual Ethanol	≤ 500 ppm	< 100 ppm				
Residual Isopropanol	≤ 5000 ppm	< 2500 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: Maland	Date:	9/15/25	Job Title:	OA Tech III
Reviewed by: Jan Burn hr				
	_			

		·	·	·
•				
		•		