BISPECTRA

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

Effective Date: 20-Jul-202	3	20-Jul-2026	: Date of Next Review
Prepared By: Virginia Pe	ena	BSI-COA-0185v.1.1	: Supersedes
QA/QC Approval: Carissa Alt	bert	Dora Meissner	: Management Approval
Reason for Revision: See Revision	on History in MasterControl.		

CERTIFICATE OF ANALYSIS DEXTRAN SULFATE SODIUM SALT, 8000MW BIO PHARMA GRADE / DXSE-4250-05 LOT: DXSE-0124-00004

(C₆H₇Na₃O₁₄S₃)n ∧ M.W. 8000 ∧ CAS# 9011-18-1 Manufacture Date: 08/12/24 Retest Date: 9/30/26 Manufacturing Site: 100 Majestic Way, Bangor PA, 18013 Packaging Date: 08/21/24 Packaging Site: 100 Majestic Way, Bangor PA, 18013

Analysis	SPECIFICATION	TEST RESULT	
Appearance	Off white to light yellow powder	Off white to light yellow powder	
Clarity (20% solution) Absorbance at 360nm	≤ 0.9 OD unit	<0.9 OD unit	
Chloride	≤ 1000 ppm	<1000 ppm	
Endotoxin	≤ 0.012EU/mg	<0.005 EU/mg	
Free Sulfate	\leq 0.2%	<0.2%	
Glucose	35 - 48%	37%	
Identification (Colorimetric)	Passes Test	Passes Test	
Insoluble Iron	≤ 2%	<0.00045%	
Loss on Drying	≤ 10%	5%	
Manganese (as reported)	≤ 1 ppm	0.092 ppm	
pH (1% solution)	5.0 - 7.5	7.1	
Residue on Ignition	35 - 50%	41%	
Pyridine	≤ 2%	<2%	
Specific Rotation $[\alpha]_D^{20}$	+75° - +105°	+85°	
Specific Viscosity (In 1.0M NaCl at 25°C)	0.018 - 0.032	0.027	
Total Bioburden	\leq 100 CFU/g	<100 CFU/g	
Sulfur	17 - 20%	18 %	

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COUNTRY OF ORIGIN: U.S.A.

TEST METHOD REFERENCE: DCN: BSI-ATM-0091

<u>INTENDED USE:</u> Once the Validation Study is complete, Material represented by this Certificate of Analysis is suitable for use as a process chemical. It is manufactured in accordance with the IPEC-PQG Joint Good Manufacturing Practice Guide. The material represented by this Certificate of Analysis is not suitable to be used as an Active Pharmaceutical Ingredient, Drug, Drug Product or Household Item.

<u>SHELF LIFE:</u> The retest date is assigned based on the industry standard for Dextran Sulfate Sodium Salt 8000MW. BioSpectra's Stability Testing Program is ongoing to further support the retest date.

Prepared by: Can Allet	Date:	214125	Job Title: Seniw Quality Manager
Reviewed by: Jan Kingh	Date:	2/4/2.5	Job Title: QA Supervisor
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