



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

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|----------------------|--|----------------|-----------------------|
| Effective Date: | 20-Jan-2025 | 20-Jan-2028 | : Date of Next Review |
| Prepared By: | Amy Yenko | Not Applicable | : Supersedes |
| QA/QC Approval: | Krista Rehrig | Carissa Albert | : Management Approval |
| Reason for Revision: | See Revision History in MasterControl. | | |

CERTIFICATE OF ANALYSIS
DEXTRAN SULFATE SODIUM SALT, MW 8000
BIOTECH, LBLE, GMP
BIO PHARMA GRADE / DXSE-4252
LOT: DXSE-G13-0125-0001

(C₆H₇Na₃O₁₄S₃)_n ★ M.W. 8000 g/mol. ★ CAS# 9011-18-1

Manufacture Date: 01/09/25

Manufacturing Site: 100 Majestic Way, Bangor PA, 18013

Packaging Site: 100 Majestic Way, Bangor PA, 18013

| ANALYSIS | SPECIFICATION | TEST RESULT |
|--|---------------------------|-------------|
| Appearance (Color) | Off White to Light Yellow | Off White |
| Appearance (Form) | Powder | Powder |
| Chloride Content | ≤ 1000 ppm | < 1000 ppm |
| Clarity (20% solution) Absorbance at 360nm | ≤ 0.9 OD unit | 0.1 OD unit |
| Enzymes | DNase Endo/Nickase | Passes Test |
| | DNase Exonuclease | Passes Test |
| | Protease | Passes Test |
| Free Inorganic Sulfate | ≤ 0.2 % | < 0.2 % |
| Glucose | 35 – 48 % | 36 % |
| Identification (Colorimetric) | Passes Test | Passes Test |
| Insoluble Iron | ≤ 2.0 % | < 0.00045 % |
| Loss on Drying | ≤ 10.0 % | 3.4 % |
| Microbial Content | ≤ 10 CFU/g | < 10 CFU/g |
| pH (1% solution) | 5.0 - 7.5 | 6.7 |
| Residue on Ignition | 35 – 50 % | 41 % |
| Residual Pyridine | ≤ 2.0 % | < 2.0 % |
| Specific Rotation 20°C | +75° - +105° | +86° |
| Total Sulfur Content | 17.0% – 20.0% | 17.7 % |
| Viscosity (In 1.0M NaCl at 25°C) | 0.018 - 0.032 | 0.028 |

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COUNTRY OF ORIGIN: U.S.A.

TEST METHOD REFERENCE: DCN: BSI-ATM-0091

INTENDED USE: 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.

Prepared by: *Anil Mehta* Date: 6/4/25 Job Title: QA Tech III

Reviewed by: *Jason Singh* Date: 6/5/25 Job Title: QA Supervisor