

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

Effective Date: 26-Mar-2025		26-Mar-2028	: Date of Next Review
Prepared By: Carissa Albert		BSI-COA-0273 v.1.0	: Supersedes
QA/QC Approval: Jaron Hughes		Hannah Kuchmas	: Management Approval
Reason for Revision: See Revision Histor	in MasterControl.		

CERTIFICATE OF ANALYSIS MES Hydrate BIO Excipient Grade / MESH-3201 LOT: MESH-E02-0225-0003

C₆H₁₃NO₄S·_xH₂O Å F.W. 195.24 g/mol. (anhydrous basis) Å CAS# 1266615-59-1

Manufacturing Date: 02/25/24 Manufacturing Site: 100 Majestic Way, Bangor PA, 18013

Packaging Site: 100 Majestic Way, Bangor PA, 18013

ANAL	YSIS	SPECIFICATION	TEST RESULT
Appearance (Color)		White	White
Appearance (Form)		Crystalline Powder	Crystalline Powder
Solubility (Color)		Colorless	Colorless
Solubility (Turbidity) 20g plus $80mL$ of H_2O		Clear	Clear
Infrared Spectrum		Conforms to Structure	Conforms to Structure
Water (by Karl Fischer)		$\leq 9\%$	9%
A290 UV Absorbance 20	0% w/w	≤ 0.05 a.u.	< 0.05 a.u.
Trace Metals (ICP-MS)	Silver (Ag) Arsenic (As) Bismuth (Bi) Cadmium (Cd) Copper (Cu) Mercury (Hg) Molybdenum (Mo) Lead (Pb) Antimony (Sb) Tin (Sn)	Sum≤5 ppm	<5 ppm
pH (0.5M in H ₂ O)		2.5 - 4.0	3.2
pH (1.0M in H ₂ O)		2.7 - 3.7	3.2
Titration with NaOH (anhydrous)		$\geq 99.5\%$	100.1 %
Impurity PVS Limit Test		$\leq 1 \text{ ppm}$	< 1 ppm

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COUNTRY OF ORIGIN: U.S.A.

TEST METHOD REFERENCE: DCN: BSI-ATM-0123

<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.

<u>RESIDUAL SOLVENT STATEMENT</u>: Based on the manufacturing process and the controlled handling, storage and analysis of this product, this product complies with the requirements and specifications listed in the current USP method <467> Tables 1, 2, 3, or 4.

Prepared by: Anil McCall	_Date: _	3/28/25	_Job Title:	QA Tech 111
Reviewed by: Can Allet	_Date:	3/28/25	Job Title:	Senior Quality Manager

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