DCN: BSI-COA-0031 v.5.2



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

Effective Date:	4-Feb-2025	4-Feb-2028	: Date of Next Review
Prepared By:	Taylor Yurick	BSI-COA-0031 v.5.1	: Supersedes
QA/QC Approval:	Jessica DeMaio	Hannah Kuchmas	: Management Approval
Reason for Revision:	See Revision History in MasterControl.		

CERTIFICATE OF ANALYSIS MES MONOHYDRATE

BIO EXCIPIENT GRADE / MESM-3220

LOT: MESM-E02-0325-0007

C₆H₁₃NO₄S·H₂O → F.W. 213.3 g/mol. → CAS# 145224-94-8

Manufacturing Date: 02/04/24 Retest Date: 02/28/26 Manufacturing Site: 100 Majestic Way, Bangor PA, 18013 Packaging Site: 100 Majestic Way, Bangor PA, 18013

Analysi	S	SPECIFICATION	TEST RESULT	MANAGEMENT	
Absorbance	260 nm	0.1000 a.u. max.	0.0091 a.u.	000000000000000000000000000000000000000	
(1M)	280 nm	0.1000 a.u. max.	0.0081 a.u.		
Appearance and Color		White / Crystals	White / Crystals		
Assay		99.0% min.	99.9%		
Chloride		0.005% max.	< 0.005%		
Color (1M, Alkaline)		Colorless	Colorless		
	DNase	None Detected	None Detected		
Enzymes	RNase	None Detected	None Detected		
	Protease	None Detected	None Detected		
Heavy Metals (as Pb) Identification (IR) Loss on Drying @ 130°C pH (5% Soln.) pH (0.5M) pK _a Residue on Ignition Solubility (5%)		2 ppm max.	< 2 ppm		
		Passes Test	Passes Test		
		7 - 10%	9%		
		3.1 - 3.5	3.4		
		2.5 - 4.5	3.3		
		5.9 - 6.3	6.2		
		0.05% max.	< 0.01%		
		Passes Test	Passes Test		
Sulfate		0.005% max.	< 0.005%		
	Arsenic (As)	2 ppm max.	< 0.45 ppm		
T	Copper (Cu)	2 ppm max.	< 1.5 ppm		
Trace Elements	Iron (Fe)	2 ppm max.	< 1.5 ppm		
	Lead (Pb)	2 ppm max.	< 0.15 ppm		

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COUNTRY OF ORIGIN: U.S.A.

TEST METHOD REFERENCE: DCN: BSI-ATM-0009

<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.

OVI STATEMENT: 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: Mulall	Date:	3/21/25	Job Title: _	QA Tech III
	Date: _	3/21/25	Job Title: _	QA Supervisor