DCN: 16-001173 v.5.0

BI SPECTRA

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

Effective Date:	01-Mar-2021		01-Mar-2024	: Date of Next Review
Prepared By:	Jared L Lobb		16-001173 v.4.1	: Supersedes
 QA/QC Approval:	Jaron Hughes		Wendy Santay	: Management Approval
Reason for Revision:	See Revision History in ensur			

CERTIFICATE OF ANALYSIS

MES MONOHYDRATE

BIO EXCIPIENT GRADE / NEW CODE MESM-3220-25

(HISTORICAL CODE ME3220-K025)

LOT: MESM-0121-00223

C₆H₁₃NO₄S·H₂O A F.W. 213.3 g mol. A CAS= 145224-94-8 Manufacturing Date: 9/1/21 Retest Date: 9/30/23 Manufacturing Site: 100 Majestic Way, Bangor PA, 18013

Packaging Date: 9/3/21 Packaging Site: 100 Majestic Way, Bangor PA, 18013

Analy	SIS	SPECIFICATION	TEST RESULT
Absorbance	260 nm	0.1000 a.u. max.	0.0040 a.u.
(1M)	280 nm	0.1000 a.u. max.	0.0030 a.u.
Appearance and Color	-	White / Crystals	White / Crystals
Assay		99.0% min.	99.8%
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)		2 ppm max.	< 2 ppm
Identification (IR)		Passes Test	Passes Test
Loss on Drying @ 130)°C	7 – 10%	9%
pH (5% Soln.)		3.1 - 3.5	3.4
pH (0.5M)		2.5 - 4.5	3.2
pK_a		5.9 - 6.3	6.1
Residue on Ignition		0.05% max.	0.01%
Solubility (5%)		Passes Test	Passes Test
Sulfate		0.005% max.	<0.005%
	Arsenic (As)	2 ppm max.	< 2 ppm
T	Copper (Cu)	2 ppm max.	< 2 ppm
Trace Elements	Iron (Fe)	2 ppm max.	< 2 ppm
	Lead (Pb)	2 ppm max.	< 2 ppm

COUNTRY OF ORIGIN: U.S.A.

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TEST METHOD REFERENCE: DCN: 16-001016

INTENDED USE: 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: Mon

Date: 4/29/2

Job Title:

Reviewed by:

Date:

Job Title: