DCN: 16-001173 v.5.0

## **BIOSPECTRA**

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-0121-00160

C<sub>6</sub>H<sub>13</sub>NO<sub>4</sub>S·H<sub>2</sub>O Å F.W. 213.3 g/mol. Å CAS# 145224-94-8 Manufacturing Date: 7/22/21 Retest Date: 7/31/23 Manufacturing Site: 100 Majestic Way, Bangor PA, 18013

Packaging Date: 7/23/21 Packaging Site: 100 Majestic Way, Bangor PA, 18013

ANALY	'SIS	SPECIFICATION	TEST RESULT
Absorbance	260 nm	0.1000 a.u. max.	0.0019 a.u.
(1M)	280 nm	0.1000 a.u. max.	0.0012 a.u.
Appearance and Color		White / Crystals	White / Crystals
Assay		99.0% min.	99.7%
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 <sub>a</sub>		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%
Trace Elements	Arsenic (As)	2 ppm max.	< 2 ppm
	Copper (Cu)	2 ppm max.	< 2 ppm
	Iron (Fe)	2 ppm max.	< 2 ppm
	Lead (Pb)	2 ppm max.	< 2 ppm

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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.

Reviewed by:

Date: 8/5/21 Job Title: QA Specialst

Date: 8/5/21 Job Title: QA Manager