

# BIOSPECTRA

100 Majestic Way, Bangor, PA 18013 / [www.biospectra.us](http://www.biospectra.us)

Effective Date:	16-Apr-2021	16-Apr-2024	: Date of Next Review
Prepared By:	Shana Geffken	16-001170 v.3.0	: Supersedes
QA/QC Approval:	Jess DeMaio	Hannah Bernier	: Management Approval
Reason for Revision:	See Revision History in ensur.		

## CERTIFICATE OF ANALYSIS

### MOPS

BIO EXCIPIENT GRADE / NEW CODE MOPS-3220-92

(HISTORICAL CODE MP3220-G100)

LOT: MOPS-0122-00072

$C_7H_{15}NO_4S$  \* F.W. 209.26 g/mol. \* CAS# 1132-61-2

Manufacturing Date: 3/20/21 Retest Date: 03/31/23

Manufacturing Site: 1474 Rockdale Lane, Stroudsburg, PA 18360

Packaging Date: 4/9/22 Packaging Site: 100 Majestic Way, Bangor PA, 18013

ANALYSIS	SPECIFICATION	TEST RESULT
	250 nm	0.020 a.u. max.
Absorbance (0.1 M)	260 nm	0.020 a.u. max.
	280 nm	0.020 a.u. max.
Appearance and Color	White / Crystals	White / Crystals
Assay	99.5% min.	99.9%
Chloride	0.005% max	< 0.005%
	DNase	None Detected
Enzymes	RNase	None Detected
	Protease	None Detected
Identification (IR)	Passes Test	Passes Test
Karl Fischer Water	0.1% max.	0.1%
Loss on Drying	1.0% max.	0.1%
pH (1% solution)	3.0 – 4.5	4.2 @ 25.9 °C
pH (2.5M)	2.5 – 4.5	3.6 @ 26.9 °C
pK <sub>a</sub>	7.0 – 7.5	7.2
Residue on Ignition	0.1% max.	< 0.1%
Solubility (5%)	Passes Test	Passes Test
Sulfate	0.005% max.	< 0.005%
	Arsenic (As)	5 ppm max.
Trace Metals	Copper (Cu)	5 ppm max.
	Iron (Fe)	5 ppm max.
	Lead (Pb)	5 ppm max.

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COUNTRY OF ORIGIN: U.S.A.

TEST METHOD REFERENCE: DCN: 16-000498

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: B B Date: 4/11/22 Job Title: QA Specialist

Reviewed by: C Date: 4/12/22 Job Title: QA Manager