

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

Effective Date:	11-Nov-2022	11-Nov-20225	: Date of Next Review
Prepared By:	Amy Hosein	BSI-COA-0049 v.5.0	: Supersedes
QA/QC Approval:	Carissa McCollian	Krista Rehrig	: Management Approval
Reason for Revision:	See Revision History in MasterControl		

## CERTIFICATE OF ANALYSIS

### MOPS

### BIO ULTRA GRADE / NEW CODE MOPS-5201-26

(HISTORICAL CODE MP5201-K050)

LOT: MOPS-0123-00044

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

Manufacturing/Packaging Date: 1/22/23 Retest Date: 1/31/25

Packaging Site: 100 Majestic Way, Bangor PA, 18013

ANALYSIS		SPECIFICATION	TEST RESULT
Absorbance (0.1 M)	260 nm	0.02 a.u. max.	0.01 a.u.
Appearance and Color		White / Crystals	White / Crystals
Assay, Dried Basis		99.0% min.	100.3%
Enzymes	DNase	None Detected	None Detected
	RNase	None Detected	None Detected
	Protease	None Detected	None Detected
LOD		1% max.	0.2%
pH of 1% solution		2.5 – 4.5	4.3 @ 23.8 °C
pK <sub>a</sub>		7.10 – 7.30	7.20
Trace Elements	Arsenic (As)	0.0001% max.	<0.000045%
	Copper (Cu)	0.0001% max.	<0.000090%
	Iron (Fe)	0.0005% max.	<0.000090%
	Lead (Pb)	0.0005% max.	<0.000015%

**TEST METHOD REFERENCE:** DCN: BSI-ATM-0008

**INTENDED USE:** Material represented by this Certificate of Analysis is suitable for use as a process chemical. The material represented by this Certificate of Analysis is not suitable to be used as an Excipient, Active Pharmaceutical Ingredient, Drug, Drug Product or Household Item.

Prepared by: *Jason Hughes* Date: *1/26/23* Job Title: *QA Specialist*  
 Reviewed by: *Carissa Allert* Date: *1/26/23* Job Title: *Assoc. Director of Quality*

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