

BIOBUFFER SOLUTIONS

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

Effective Date:	29-Jun-2026	29-Jun-2029	: Date of Next Review
Prepared By:	Taylor Vazquez	BSI-COA-0352 v.1.0	: Supersedes
QA/QC Approval:	Carissa Albert	Hannah Kuchmas	: Management Approval
Reason for Revision:	See Revision History in MasterControl.		

CERTIFICATE OF ANALYSIS MOPS

BIO ULTRA GRADE / MOPS-5222

LOT: MOPS-L03-0726-0011

C₇H₁₅NO₄S • F.W. 209.26 g/mol • CAS#: 1132-61-2

Manufacturing Date: 8/2/26 Expiration Date: 12/31/27

Packaging Site: 100 Majestic Way, Bangor PA, 18013

ANALYSIS	SPECIFICATION	TEST RESULT
Absorbance (0.1M)	260 nm	< = 0.02 a.u.
Appearance and Color	White Crystalline Powder	<0.02 a.u.
Assay, Dried Basis	> = 99.0 %	Passes Test
Color of Solution (1M)	< = 50 APHA	100.1 %
Heavy Metals (Pb)	< = 5 ppm	<50 APHA
Loss on Drying	< = 0.5 %	<1.0 ppm
pH (1%)	2.5 – 4.5	0.2 %
pKa	7.10 – 7.30	4.4
Solubility (10%)	Passes Test	7.2
		Passes Test

TEST METHOD REFERENCE: DCN: BSI-ATM-0008

MANUFACTURING DATE: The manufacturing date is representative of the date of final packaging date at BioSpectra.

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: *Gron Kuchmas* Date: 8/10/26 Job Title: QA Supervisor

Reviewed by: *Shirley McCall* Date: 8/10/26 Job Title: QA Techn