DCN: BSI-COA-0320 v.1.0



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

Effective Date:	22-Jan-2025	22-Jan-2028	: Date of Next Review
Prepared By:	Amy Yencho	Not Applicable	: Supersedes
QA/QC Approval:	Krista Rehrig	Carissa Albert	: Management Approval
Reason for Revision:	See Revision History in MasterControl		

CERTIFICATE OF ANALYSIS MOPS BIOTECH, GMP

BIO PHARMA GRADE / MOPS-4221

LOT: MOPS-S02-0125-0005

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

Manufacturing Date: 1/19/25 Retest Date: 1/31/27 Manufacturing Site: 1474 Rockdale Lane, Stroudsburg, PA 18360

Packaging Site: 100 Majestic Way, Bangor PA, 18013

Analysis		SPECIFICATION	TEST RESULT
	250 nm	≤ 0.020 a.u.	0.007 a.u.
Absorbance (0.1M)	260 nm	≤ 0.020 a.u.	0.006 a.u.
(0.1141)	280 nm	\leq 0.020 a.u.	0.006 a.u.
Appearance and Color		White / Crystals	White / Crystals
Assay		≥ 99.5 %	100.0 %
Chloride		≤ 50 ppm	< 50 ppm
	DNase	None Detected	None Detected
Enzymes	RNase	None Detected	None Detected
	Protease	None Detected	None Detected
Identification, IR		Conforms to Reference Standard	Conforms to Reference Standard
Loss on Drying		≤ 1.0 %	< 1.0 %
pH (1% solution)		3.0 - 4.5	4.3
pH (2.5M)		2.5 - 4.5	3.6
pK_a		7.0 - 7.5	7.2
Residue on Ignition		≤ 0.1 %	< 0.1 %
Solubility (5%)		Passes Test	Passes Test
Sulfate		≤ 50 ppm	< 50 ppm

ANALYSIS		SPECIFICATION	TEST RESULT
Arsenic Bismuth Calcium Chromium Chromium Copper Trace Metals Iron Lead Lithium Magnesium Molybdenum	Aluminum (Al)	≤ 5 ppm	< 1.5 ppm
	Arsenic (As)	≤ 5 ppm	< 0.45 ppm
	Bismuth (Bi)	≤ 5 ppm	< 3.0 ppm
	Calcium (Ca)	≤ 5 ppm	5 ppm
	Chromium (Cr)	≤ 5 ppm	< 1.5 ppm
	Copper (Cu)	≤ 5 ppm	< 0.15 ppm
	Iron (Fe)	≤ 5 ppm	< 0.30 ppm
	Lead (Pb)	≤ 5 ppm	< 1.0 ppm
	Lithium (Li)	≤ 5 ppm	< 1.5 ppm
	Magnesium (Mg)	≤ 5 ppm	0.98 ppm
	Molybdenum (Mo)	≤ 5 ppm	< 3.0 ppm
	Nickel (Ni)	≤ 5 ppm	< 0.75 ppm
Water, KF		≤ 0.1 %	< 0.05 %

COUNTRY OF ORIGIN: U.S.A.

TEST METHOD REFERENCE: DCN: BSI-ATM-0008

INTENDED USE: Material represented by this Certificate of Analysis is suitable for use as a process chemical. It is manufactured in accordance with the IPEC-PQG Joint Good Manufacturing Practice Guide. The material represented by this Certificate of Analysis is not suitable to be used as an Active Pharmaceutical Ingredient, Drug, Drug Product or Household Item.

Prepared by: Date: 3/3/25 Job Title: QA Tech 1

Reviewed by: Date: 3/3/25 Job Title: Senior Quality Manager