

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

Effective Date:	25-Oct-2019	25-Oct-2022	: Date of Next Review
Prepared By:	Kyle Snyder	16-001234 v.2.0	: Supersedes
QA/QC Approval:	Danielle Gathagan	Hannah Bernier	: Management Approval
Reason for Revision:	See Revision History in ensur.		

**CERTIFICATE OF ANALYSIS**  
**MOPS**  
**BIO ULTRA GRADE / MP5220-G100**  
**LOT: MP5220-006-1219**

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

Packaging Date: 12/18/2019

Packaging Site: 100 Majestic Way, Bangor PA, 18013

ANALYSIS		SPECIFICATION	TEST RESULT
Absorbance	260 nm	0.030 a.u. max.	< 0.030 a.u.
Appearance and Color		White / Crystals	White / Crystals
Assay		99.0% min.	100.1%
Identification (IR)		Passes Test	Passes Test
pH (1% solution)		2.5-4.5	4.3 @ 23.33 °C
Solubility (5% solution)		Passes Test	Passes Test

COUNTRY OF ORIGIN: China

TEST METHOD REFERENCE: DCN: 16-000498

INTENDED USE: Material represented by this Certificate of Analysis is suitable to be used only as the following: Quality System Manufactured Chemical for use in further Manufacturing or for Laboratory and Research. 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: S. Hinton Date: 12/20/19

Reviewed by: Car Date: 12/20/19