BIOBUFFER SOLUTIONS

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

Effective Date:	26-Oct-2026	26-Oct-2029	: 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

HEPES SODIUM SALT

REAGENT

BIO ULTRA GRADE / HEPN-5253

LOT: HEPN-L02-1026-0000

$C_8H_{17}N_2NaO_4S$ ⅄ F.W. 260.29 g/mol. ⅄ CAS# 75277-39-3

Manufacturing Date: 10/01/26 Retest Date: 10/31/28

Packaging Site: 100 Majestic Way, Bangor PA, 18013

ANALYSIS		SPECIFICATION	TEST RESULT
Absorbance (1M)	250nm	< = 1.0 a.u.	<1.0 a.u.
Appearance and Color		White Powder	Passes Test
Assay, Dried Basis		> = 98.0%	99.0 %
Endotoxin		< = 0.04 EU/mg	<0.04 EU/mg
Enzymes	DNase	None Detected	None Detected
	Protease	None Detected	None Detected
	RNase	None Detected	None Detected
Heavy Metals (Pb)		< = 5 ppm	<5 ppm
Identification, IR		Conforms to Reference Standard	Passes Test
Loss on Drying		< = 3.0 %	<3.0 %
Microbial Content	TAMC	< 50 CFU/g	<50 CFU/g
	TYMC	< 50 CFU/g	<50 CFU/g
pH (1%)		9.4 – 11.0	10.0
pKa, 25°C		7.4 – 7.7	7.5
Solubility (1%)		Clear, Complete, and Colorless	Passes Test

TEST METHOD REFERENCE: DCN: BSI-ATM-0015

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

Sample CoA

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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: Carl Allen Date: 10/28/26 Job Title: Senior Quality Manager

Reviewed by: Jason Bright Date: 10/29/26 Job Title: QA Supervisor

Sample CoA

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