

BIOSPECTRA

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

Effective Date:	17-Nov-2020	17-Nov-2023	: Date of Next Review
Prepared By:	Amy Hosein	19-002798 v.2.0	: Supersedes
QA/QC Approval:	Carissa McCollan	Wendy Santay	: Management Approval
Reason for Revision:	See Revision History in ensur		

CERTIFICATE OF ANALYSIS

SODIUM HYDROXIDE 10N

BIO PHARMA GRADE / NH4150-L001

LOT: NH4150-019-1120

NaOH Δ F.W. 40.00 g/mol. Δ CAS# 1310-73-2

Manufacture Date: 10/10/20 Expiration Date: 10/31/22

Manufacturing Site: 100 Majestic Way, Bangor PA, 18013

Packaging Date: 11/23/20

Packaging Site: 100 Majestic Way, Bangor PA, 18013

ANALYSIS	SPECIFICATION	TEST RESULT
Appearance and Color	Clear / Colorless Liquid	Clear / Colorless Liquid
Chloride	≤ 5 ppm	≤ 5 ppm
Endotoxins	≤ 2.0 EU/mL	≤ 2.0 EU/mL
Heavy Metals (as Pb)	≤ 1 ppm	≤ 1 ppm
Iron	≤ 2 ppm	≤ 2 ppm
Normality	9.9N – 10.1N	10.0 N
Sodium Carbonate	$\leq 0.6\%$	$\leq 0.6\%$

COUNTRY OF ORIGIN: U.S.A.TEST METHOD REFERENCE: DCN: 19-002773

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: Jason Hughes Date: 11/30/20 Job Title: QA Specialist

Reviewed by: Carissa Date: 11/30/20 Job Title: QA Supervisor