

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing:	2026-06-08 18:38:17
Date of Next Testing:	2030-06-07 18:38:17
Product Name:	<b>N-Methyl morpholine</b>
CAS Number:	109-02-4
Specifications & Purity:	for protein sequencing, ≥99.8%(GC)
Lot #:	F2601096
SKU #	<b>M104644</b>
Version	<b>0</b>
<b>Analysis #:</b>	<b>308410</b>
Storage Temperature:	Protected from light, Room temperature

Parameter	Limit Values	Result
Refractive index n <sub>20</sub> /D	1.433-1.437	1.43553
Sodium(Na)	0-50 (ppm)	0.00000 ppm
Chloride (Cl <sup>-</sup> )	0-50 (ppm)	0.32000 ppm
Cadmium(Cd)	0-5 (ppm)	0.00000 ppm
Calcium(Ca)	0-10 (ppm)	0.00000 ppm
Manganese(Mn)	0-5 (ppm)	0.00000 ppm
Zinc(Zn)	0-5 (ppm)	0.00000 ppm
Iron(Fe)	0-5 (ppm)	0.00000 ppm
Potassium(K)	0-50 (ppm)	0.00000 ppm
Nickel(Ni)	0-5 (ppm)	0.00000 ppm
(Pb)Lead	0-5 (ppm)	0.00000 ppm
Magnesium(Mg)	0-5 (ppm)	0.00000 ppm
Purity(GC)	99.8-100 (%)	99.83000 %
Chromium(Cr)	0-5 (ppm)	0.00000 ppm
Sulfate(SO <sub>4</sub> <sup>2-</sup> )	0-50 (ppm)	0.00500 ppm
Cobalt(Co)	0-5 (ppm)	0.00000 ppm
Copper(Cu)	0-5 (ppm)	0.00000 ppm
Appearance (M104644)	Colorless Liquid	Colorless liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure
OPA-reagent reacting impurities	none detected (fluorimetric)	none detected (fluorimetric)
protein-analysis test	pass	Pass
abs	cut-off	cut-off



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A handwritten signature in black ink that reads "John Su". The signature is written in a cursive, flowing style.

John Su  
QA & QC Manager