

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-08-16 15:51:32
Date of Next Testing: 2025-08-15 15:51:32
Product Name: **NG-Monomethyl-L-arginine Acetate**
CAS Number: 53308-83-1
Specifications & Purity: $\geq 98\%$
Lot #: K2111060
SKU #: **N133898**
Analysis: 260210
Storage Temperature: Store at -20°C , Argon charged

Parameter	Limit Values	Result
Purity(HPLC)	98-100 (%)	99.38400 %
Carbon by Elemental Analysis(anhydrous)	42.4-44.7 (%)	43.20 %
Nitrogen by Elemental Analysis (anhydrous)	21.3-23.8 (%)	22.65 %
Melting point	180-190 ($^{\circ}\text{C}$)	185.30000 $^{\circ}\text{C}$
Water by Karl Fischer	0-3 (%)	1.20 %
Specific Rotation $[\alpha]_{20/D}$	10-13 ($^{\circ}$)	10.60 $^{\circ}$
Purity(Nonaqueous Titration)	97.5-102.5 (%)	98.99 %
Appearance (N133898)	White to white with yellow to off-white cast powder or solid	White to white with yellow to off-white cast powder or solid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in H ₂ O , Colorless to Yellow,Clear to Slightly Hazy(50mg/ml)	pass	Pass



John Su
QA & QC Manager