

## Certificate of Analysis

Date of Testing: 2023-01-13 13:27:35  
Date of Next Testing: 2025-01-12 13:27:35  
Product Name: **N-Methyl-DL-alanine**  
CAS Number: 600-21-5  
Specifications & Purity:  $\geq 98.0\%$   
Lot #: D2101066  
SKU #: **I135858**  
Analysis: **178663**

Parameter	Limit Values	Result
Carbon by Elemental Analysis	44.3-47.8 (%)	44.32 %
Specific Rotation $[\alpha]_{25}^D(c=1 \text{ in H}_2\text{O})$	-1-1 ( $^{\circ}$ )	0.00 $^{\circ}$
Nitrogen by Elemental Analysis	13.2-13.9 (%)	13.20 %
Purity(HPLC)	98-100 (%)	99.76500 %
Appearance (I135858)	White to Almost white powder to crystal	White to Almost white powder to crystal
Infrared spectrum	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in H <sub>2</sub> O , Colorless ,Clear ,50 mg/mL in H <sub>2</sub> O	pass	Pass



John Su  
QA & QC Manager