

Certificate of Analysis

Date of Testing: 2024-05-27 09:42:15
Date of Next Testing: 2026-05-27 09:42:15
Product Name: **D-Lysine**
CAS Number: 923-27-3
Specifications & Purity: $\geq 99\%$
Lot #: E2420100
SKU #: **D139442**
Version: **0**
Analysis #: **327968**
Storage Temperature: Store at -20°C

Parameter	Limit Values	Result
Purity(HPLC)	99-100 (%)	99.00000 %
Specific Rotation $[\alpha]_{25}^D(c=1 \text{ in H}_2\text{O})$	-16--12 ($^{\circ}$)	-12.30 $^{\circ}$
Carbon by Elemental Analysis	47-50.5 (%)	47.50 %
Nitrogen by Elemental Analysis	18-19.4 (%)	18.30 %
Water by Karl Fischer	0-5 (%)	4.60 %
Appearance (D139442)	white to off-white powder, crystals and/or chunks	white to off-white powder, crystals and/or chunks
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in H ₂ O , Colorless to Faint Yellow Clear ,50 mg/mL, H ₂ O	pass	Pass



John Su
QA & QC Manager