

## Certificate of Analysis

Date of Testing: 2024-12-05 17:43:08  
Date of Next Testing: 2028-12-04 17:43:08  
Product Name: **D(+)-Glucosamine hydrochloride**  
CAS Number: 66-84-2  
Specifications & Purity:  $\geq 99\%$   
Lot #: L2402011  
SKU #: **G100089**  
Version: **0**  
Analysis #: **444766**  
Storage Temperature: Desiccated

Parameter	Limit Values	Result
Loss on drying(105°C, 2 hrs)	0-0.1 (%)	0.00 %
Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in H}_2\text{O})$ (after 20hours)	70-74 (°)	71.58°
Purity (Argentmetric Titration)	98.5-101.5 (%)	99.50 %
Appearance (G100089)	White Solid	White Solid
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in H <sub>2</sub> O , clear colorless , 100mg/ml in water	pass	Pass



John Su  
QA & QC Manager