

Certificate of Analysis

Date of Testing: 2024-03-27 15:13:34
Date of Next Testing: 2028-03-26 15:13:34
Product Name: **D(+)-Glucosamine hydrochloride**
CAS Number: 66-84-2
Specifications & Purity: $\geq 99\%$, for cell culture
Lot #: C2418088
SKU #: **G119456**
Analysis: 005193
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(HPLC with pulsed amperometric detection)	99-100 (%)	99.59%
Specific Rotation $[\alpha]_{20/D(c=1 \text{ in H}_2\text{O})}$ (after 20hours)	70-74 ($^{\circ}$)	70.84 $^{\circ}$
Purity(Titration by HClO ₄)	98.5-101.5 (%)	100.50%
Appearance (G119456)	white powder	White powder
Cell Culture Test	pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in H ₂ O , clear colorless , 100mg/ml in water	pass	Pass



John Su
QA & QC Manager