

## Certificate of Analysis

Date of Testing: 2023-03-15 18:30:47  
Date of Next Testing: 2027-03-14 18:30:47  
Product Name: **D-Glucosamic Acid**  
CAS Number: 3646-68-2  
Specifications & Purity: 98%  
Lot #: C2311517  
SKU #: **S161334**  
**Analysis:** **192436**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Assay(Nonaqueous Titration)	97.5-102.5 (%)	100.00000 %
Specific rotation [α] <sub>20</sub> /D(C=2.5, 1mol/L HCl)	-15.5~-13.5 (°)	-14.40000 °
Appearance(S161334)	White to Almost white powder to crystalline	White to Almost white powder to crystalline
Infrared spectrum	conforms to structure	Conforms to Structure



John Su  
QA & QC Manager