

## Certificate of Analysis

Date of Testing: 2023-04-25 11:49:03  
Date of Next Testing: 2027-04-24 11:49:03  
Product Name: **D-Glucosamine sulphate**  
CAS Number: 29031-19-4  
Specifications & Purity: 98%  
Lot #: D2318797  
SKU #: **G117990**  
**Analysis: 165114**

Parameter	Limit Values	Result
Loss on drying	0-0.5 (%)	0.00 %
Specific Rotation $[\alpha]_{20/D}(c=3.5 \text{ in H}_2\text{O in Standing 24h})$	52-54 ( $^{\circ}$ )	53.55 $^{\circ}$
Heavy metals	0-0.001 (%)	0.00 %
Purity(HPLC)	98-100 (%)	99.10600 %
Appearance (G117990)	White to Off-White Powder or Crystals	White to Off-White Powder or Crystals
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager