

Certificate of Analysis

Date of Testing: 2023-06-05 10:24:31
Date of Next Testing: 2027-06-04 10:24:31
Product Name: **D-Glucosamine sulphate**
CAS Number: 29031-19-4
Specifications & Purity: 98%
Lot #: H1915095
SKU #: **G117990**
Analysis: **233797**

| Parameter | Limit Values | Result |
|-----------------------------------------------------------------------------------|---------------------------------------|---------------------------------------|
| Loss on drying | 0-0.5 (%) | 0.26 % |
| Specific Rotation $[\alpha]_{20/D}(c=3.5 \text{ in H}_2\text{O in Standing 24h})$ | 52-54 ($^{\circ}$) | 53.96 $^{\circ}$ |
| Purity(HPLC) | 98-100 (%) | 98.13000 % |
| Heavy metals | 0-0.001 (%) | 0.00 % |
| 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