

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-01-27 15:19:52  
Date of Next Testing: 2028-01-26 15:19:52  
Product Name: **D(+)-Glucosamine hydrochloride**  
CAS Number: 66-84-2  
Specifications & Purity:  $\geq 99\%$   
Lot #: A2418070  
SKU #: **G100089**  
**Analysis: 064738**  
Storage Temperature: Desiccated

| Parameter   | Limit Values          | Result                |
|---|-----------------------|-----------------------|
| Loss on drying(105°C, 2 hrs)  | 0-0.1 (%)             | 0.03%                 |
| Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in H}_2\text{O})$ (after 20hours) | 70-74 (°)             | 70.84°                |
| Purity (Argentometric Titration)  | 98.5-101.5 (%)        | 99.60%                |
| 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