

## Certificate of Analysis

Date of Testing: 2023-01-13 09:32:27  
Date of Next Testing: 2027-01-12 09:32:27  
Product Name: **2-O- $\alpha$ -D-Glucopyranosyl-L-ascorbic Acid**  
CAS Number: 129499-78-1  
Specifications & Purity: >98.0%(HPLC)  
Lot #: A2306818  
SKU #: **O160006**  
Version: **0**  
Analysis #: **164820**  
Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Purity(HPLC)	98-100 (%)	99.15000 %
Specific Rotation [a] <sub>D</sub> 20/D(c=1 in H <sub>2</sub> O)	188-198 (°)	189.84 °
Appearance (O160006)	White to Off-White Powder	White to Off-White Powder
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager