

## Certificate of Analysis

Date of Testing: 2024-07-30 17:03:45  
Date of Next Testing: 2028-07-29 17:03:45  
Product Name: **D-Mannono-1,4-lactone**  
CAS Number: 26301-79-1  
Specifications & Purity: 97%  
Lot #: G2425691  
SKU #: **S161301**  
Version: **1**  
Analysis #: **389422**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Specific Rotation $[\alpha]_{20/D(c=2 \text{ in H}_2\text{O})}$	49-54 (°)	51.40°
Melting point	151-156 (°C)	153.40000 °C
Purity(HPLC area)	97-100 (%)	98.70%
Appearance(S161301)	White to Almost white powder to crystal	White to Almost white powder to crystal
NMR Spectrum 1H	conforms to structure	Conforms to Structure



John Su  
QA & QC Manager