

## Certificate of Analysis

Date of Testing: 2022-09-09 15:04:53  
Date of Next Testing: 2026-09-08 15:04:53  
Product Name: **Methyl  $\alpha$ -D-galactopyranoside**  
CAS Number: 3396-99-4  
Specifications & Purity: > 98.0%  
Lot #: I2201754  
SKU #: **M120874**  
**Analysis: 120858**  
Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Water by Karl Fischer	0-10 (%)	8.83 %
Purity(HPLC)	98-100 (%)	99.82600 %
Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in H}_2\text{O})$	173-183 (°)	176.99 °
Melting point	106-110 (°C)	109.85000 °C
Appearance (M120874)	White to Almost white powder to crystal	White to Almost white powder to crystal
Clear colorless solution(50mg/ml,water)	pass	Pass
Proton NMR spectrum	Conforms to structure	Conforms to Structure



John Su  
QA & QC Manager