

## Certificate of Analysis

Date of Testing: 2023-07-17 14:22:49  
 Date of Next Testing: 2027-07-16 14:22:49  
 Product Name: **Decyl  $\beta$ -D-glucopyranoside**  
 CAS Number: 58846-77-8  
 Specifications & Purity: BC  
 Lot #: G23071014  
 SKU #: **D112862**  
**Analysis:** **252780**  
 Storage Temperature: Store at -20°C

Parameter	Limit Values	Result
Water by Karl Fischer	0-1 (%)	0.98 %
A260 nm, 1% in water	0-0.03	0.00
n-Decanol	0-0.002 (%)	0.00 %
n-Decyl- $\alpha$ -D-glucoside(HPLC)	0-0.01 (%)	0.00 %
Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in EtOH})$	-28--26 (°)	-27.00 °
Purity(HPLC)	98-100 (%)	99.89600 %
Appearance (D112862)	White or off-white powder	White or off-white powder
Solubility in MeOH, clear to very slightly hazy colorless, 50mg/ml pass		Pass
Thermal transition(130°C)	Isotropic	Isotropic
Thermal transition(75.2°C)	Smectic A	Smectic A
Proton NMR spectrum	Conforms to structure	Conforms to Structure



John Su  
QA & QC Manager