

## Certificate of Analysis

Date of Testing: 2024-09-18 17:23:13  
Date of Next Testing: 2026-09-18 17:23:13  
Product Name: **Phenyl  $\beta$ -D-Galactopyranoside**  
CAS Number: 2818-58-8  
Specifications & Purity:  $\geq 98\%$   
Lot #: L2205325  
SKU #: **P136533**  
Version: **0**  
Analysis #: **412322**  
Storage Temperature: Store at  $-20^{\circ}\text{C}$ , Argon charged

Parameter	Limit Values	Result
Specific Rotation $[\alpha]_{20}^D(c=2.3 \text{ in H}_2\text{O})$	-44--40 ( $^{\circ}$ )	-40.05 $^{\circ}$
Purity(HPLC)	98-100 (%)	99.04000%
Melting point	146-149 ( $^{\circ}\text{C}$ )	146.84300 $^{\circ}\text{C}$
Appearance (P136533)	white powder or solid	white powder or solid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in H <sub>2</sub> O , Colorless ,Clear ,50 mg/mL in H <sub>2</sub> O	pass	Pass



John Su  
QA & QC Manager