

Certificate of Analysis

Date of Testing: 2022-05-31 09:57:52

Date of Next Testing: 2026-05-30 09:57:52

Product Name: **p-Nitrophenyl- β -D-Galactopyranoside**

CAS Number: 3150-24-1

Specifications & Purity: 99%

Lot #: E2224133

SKU #: **N100371**

Analysis: **081420**

Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in H}_2\text{O})$	-87--80 (°)	-82.17 °
Free P-Nitrophenol	0-0.1 (%)	0.07 %
Water by Karl Fischer	0-11 (%)	0.23 %
Purity(HPLC)	99-100 (%)	99.93300 %
Melting point	179-183 (°C)	181.43000 °C
Appearance (N100371)	White to Yellow to Green Powder, Crystals or Chunks	White to Yellow to Green Powder, Crystals or Chunks
beta-Galactosidase detection test	to pass test	to pass test
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in H ₂ O , Colorless to Faint Green , Clear, 10mg/ml	pass	Pass



John Su
QA & QC Manager