

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-09-11 17:08:34

Date of Next Testing: 2028-09-10 17:08:34

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

CAS Number: 3150-24-1

Specifications & Purity: $\geq 99\%$

Lot #: I2410305

SKU # **N100371**

Version **0**

Analysis #: **403915**

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 (°)	-83.27800 °
Water by Karl Fischer	0-11 (%)	1.36500 %
Purity(HPLC)	99-100 (%)	100.00000 %
Melting point	179-183 (°C)	181.73000 °C
Free P-Nitrophenol	0-0.1 (%)	0.10000 %
Appearance (N100371)	White to Yellow to Green Powder, Crystals or Chunks	White to Yellow to Green Powder, Crystals or Chunks
Solubility in H ₂ O , Colorless to Faint Green, Clear, 10mg/ml	pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure
beta-Galactosidase detection test	to pass test	to pass test



John Su
QA & QC Manager