

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-01-31 11:23:06

Date of Next Testing: 2028-01-30 11:23:06

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

CAS Number: 3150-24-1

Specifications & Purity: $\geq 98\%$

Lot #: A2424241

SKU #: **N100372**

Version: **0**

Analysis #: **319297**

Storage Temperature: Store at -20°C

Parameter	Limit Values	Result
Purity(HPLC)	98-100 (%)	99.74000 %
Melting point	179-183 (°C)	181.88000 °C
Water by Karl Fischer	0-11 (%)	0.27580 %
Free P-Nitrophenol	0-0.1 (%)	0.00000 %
Specific Rotation $[\alpha]_{20/D(c=1 \text{ in H}_2\text{O})}$	-87--80 (°)	-80.10000 °
Appearance (N100372)	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