

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-04-24 14:54:48
 Date of Next Testing: 2027-04-23 14:54:48
 Product Name: **p-Nitrophenyl- β -D-Galactopyranoside**
 CAS Number: 3150-24-1
 Specifications & Purity: $\geq 98\%$
 Lot #: D2318949
 SKU #: **N100372**
 Version: **0**
 Analysis #: **215127**
 Storage Temperature: Store at -20°C

Parameter	Limit Values	Result
Purity(HPLC)	98-100 (%)	99.90400 %
Melting point	179-183 ($^{\circ}\text{C}$)	182.62000 $^{\circ}\text{C}$
Water by Karl Fischer	0-11 (%)	0.23650 %
Free P-Nitrophenol	0-0.1 (%)	0.05300 %
Specific Rotation $[\alpha]_{20/D(c=1 \text{ in H}_2\text{O})}$	-87--80 ($^{\circ}$)	-80.10600 $^{\circ}$
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