

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

# Certificate of Analysis

Date of Testing: 2026-06-02 10:05:53

Date of Next Testing: 2030-06-01 10:05:53

Product Name: **p-Nitrophenyl- $\beta$ -D-Galactopyranoside**

CAS Number: 3150-24-1

Specifications & Purity:  $\geq 98\%$

Lot #: F2601526

SKU #: **N100372**

Version: **0**

Analysis #: **715415**

Storage Temperature: Store at -20°C

| Parameter                                                                   | Limit Values                                          | Result                                                |
|-----------------------------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|
| Purity(HPLC)                                                                | 98-100 (%)                                            | 99.90000 %                                            |
| Melting point                                                               | 179-183 (°C)                                          | 180.48000 °C                                          |
| Water by Karl Fischer                                                       | 0-11 (%)                                              | 1.00330 %                                             |
| Free P-Nitrophenol                                                          | 0-0.1 (%)                                             | 0.05000 %                                             |
| Specific Rotation $[\alpha]_{20/D(c=1 \text{ in H}_2\text{O})}$             | -87--80 (°)                                           | -83.75300 °                                           |
| Appearance (N100372)                                                        | White to Yellow to Green<br>Powder,Crystals or Chunks | White to Yellow to Green<br>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 <sub>2</sub> O , Colorless to Faint<br>Green ,Clear,10mg/ml | pass                                                  | Pass                                                  |



John Su  
QA & QC Manager