

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-01-10 14:30:08
 Date of Next Testing: 2025-01-09 14:30:08
 Product Name: **IPTG (isopropyl- β -D-thiogalactopyranoside)**
 CAS Number: 367-93-1
 Specifications & Purity: \geq 99.0%, Ultra Pure Grade
 Lot #: A2306226
 SKU #: **I274316**
Analysis: 016761
 Storage Temperature: Store at 2-8°C, Argon charged

| Parameter | Limit Values | Result |
|--|-----------------------|-----------------------|
| UV Absorbance 300nm(5% in H ₂ O) | 0-0.13 | 0.01 |
| UV Absorbance 400nm(5% in H ₂ O) | 0-0.06 | 0.00 |
| Melting point | 110 - 114 °C | 113.98000 °C |
| Moisture content | 0-1 (%) | 0.83 % |
| PH (5%, water) 25 ° C | 5-7 | 6.30 |
| Purity(HPLC) | 99-100 (%) | 99.25200 % |
| Specific Rotation [a] _D 20/D(c=1 in H ₂ O) | -34~-29 (°) | -31.73 ° |
| Dioxane Test | Pass | Pass |
| Proton NMR spectrum | Conforms to Structure | Conforms to Structure |
| Solubility (5% in H ₂ O) | Pass | Pass |



John Su
QA & QC Manager