

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-08-08 17:30:59
Date of Next Testing: 2026-08-08 17:30:59
Product Name: **IPTG (isopropyl- β -D-thiogalactopyranoside)**
CAS Number: 367-93-1
Specifications & Purity: $\geq 99.0\%$, Ultra Pure Grade
Lot #: H2407496
SKU #: **I274316**
Version: **2**
Analysis #: **393635**
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 | 0.01 |
| Moisture content | 0-1 (%) | 0.75 % |
| PH (5%, water) 25 ° C | 5-7 | 6.81 |
| Purity(HPLC) | 99-100 (%) | 99.33700 % |
| Specific Rotation [a] _D 20/D(c=1 in H ₂ O) | -34--29 (°) | -31.79 ° |
| Melting point | 110-114 (°C) | 114.00000 °C |
| Proton NMR spectrum | Conforms to Structure | Conforms to Structure |
| Solubility (5% in H ₂ O) | Pass | Pass |



John Su
QA & QC Manager