

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-08-15 15:19:12
 Date of Next Testing: 2027-08-15 15:19:12
 Product Name: **Isopropyl- β -D-thiogalactopyranoside(IPTG)**
 CAS Number: 367-93-1
 Specifications & Purity: Ultra pure, $\geq 99\%$
 Lot #: H2511330
 SKU #: **I274316**
 Version: **2**
 Analysis #: **528289**
 Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Melting point	110-114 (°C)	110.49000 °C
Moisture content	0-1 (%)	0.71560 %
Purity(HPLC)	99-100 (%)	99.87100 %
Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in H}_2\text{O})$	-34--29 (°)	-31.95200 °
PH (5%, water) 25 °C	5-7	6.45000
UV Absorbance 300nm(5% in H ₂ O)	0-0.13	0.01100
UV Absorbance 400nm(5% in H ₂ O)	0-0.06	0.00400
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility (5% in H ₂ O)	Pass	Pass



John Su
QA & QC Manager