

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-08-15 15:10:11  
Date of Next Testing: 2027-08-15 15:10:11  
Product Name: **Isopropyl- $\beta$ -D-thiogalactopyranoside(IPTG)**  
CAS Number: 367-93-1  
Specifications & Purity: Ultra pure,  $\geq 99\%$   
Lot #: H2511329  
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 [a] <sub>D</sub> 20/D(c=1 in H <sub>2</sub> O)	-34--29 (°)	-31.95200 °
PH (5%, water) 25 ° C	5-7	6.45000
UV Absorbance 300nm(5% in H <sub>2</sub> O)	0-0.13	0.01100
UV Absorbance 400nm(5% in H <sub>2</sub> O)	0-0.06	0.00400
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility (5% in H <sub>2</sub> O)	Pass	Pass



John Su  
QA & QC Manager