

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-10-12 10:22:24  
Date of Next Testing: 2025-10-11 10:22:24  
Product Name: **IPTG (isopropyl- $\beta$ -D-thiogalactopyranoside)**  
CAS Number: 367-93-1  
Specifications & Purity:  $\geq$ 99.0%, Ultra Pure Grade  
Lot #: J2309557  
SKU #: **I274316**  
**Analysis: 280217**  
Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
UV Absorbance 300nm(5% in H <sub>2</sub> O)	0-0.13	0.04
UV Absorbance 400nm(5% in H <sub>2</sub> O)	0-0.06	0.01
Melting point	110-114 (°C)	110.73000 °C
Moisture content	0-1 (%)	0.62 %
PH (5%, water) 25 °C	5-7	6.04
Purity(HPLC)	99-100 (%)	99.27600 %
Specific Rotation [a] <sub>D</sub> 20/D(c=1 in H <sub>2</sub> O)	-34--29 (°)	-30.32 °
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility (5% in H <sub>2</sub> O)	Pass	Pass
Dioxane Test	Pass	Pass



John Su  
QA & QC Manager