

Certificate of Analysis

Date of Testing: 2023-10-12 10:17:48
 Date of Next Testing: 2025-10-11 10:17:48
 Product Name: **IPTG (isopropyl- β -D-thiogalactopyranoside)**
 CAS Number: 367-93-1
 Specifications & Purity: \geq 99.0%, Ultra Pure Grade
 Lot #: J2309556
 SKU #: **I274316**
Analysis: **280217**
 Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
UV Absorbance 300nm(5% in H ₂ O)	0-0.13	0.04
UV Absorbance 400nm(5% in H ₂ 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] _D 20/D(c=1 in H ₂ O)	-34--29 (°)	-30.32 °
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility (5% in H ₂ O)	Pass	Pass
Dioxane Test	Pass	Pass



John Su
QA & QC Manager