

Certificate of Analysis

Date of Testing: 2023-10-12 10:16:24
Date of Next Testing: 2025-10-11 10:16:24
Product Name: **IPTG (isopropyl- β -D-thiogalactopyranoside)**
CAS Number: 367-93-1
Specifications & Purity: $\geq 99.0\%$, Ultra Pure Grade
Lot #: I2325531
SKU #: **I274316**
Analysis: 273423
Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
UV Absorbance 300nm(5% in H ₂ O)	0-0.13	0.03
UV Absorbance 400nm(5% in H ₂ O)	0-0.06	0.01
PH (5%, water) 25 ° C	5-7	6.16
Purity(HPLC)	99-100 (%)	99.17400 %
Specific Rotation [a] _D 20/D(c=1 in H ₂ O)	-34--29 (°)	-31.08 °
Melting point	110-114 (°C)	110.06000 °C
Moisture content	0-1 (%)	0.99 %
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