

## Certificate of Analysis

Date of Testing: 2023-03-09 20:45:11  
Date of Next Testing: 2025-03-08 20:45:11  
Product Name: **IPTG (isopropyl- $\beta$ -D-thiogalactopyranoside)**  
CAS Number: 367-93-1  
Specifications & Purity:  $\geq 99.0\%$ , Ultra Pure Grade  
Lot #: C2307235  
SKU #: **I274316**  
**Analysis: 016761**  
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	0.01
UV Absorbance 400nm(5% in H <sub>2</sub> O)	0-0.06	0.00
Melting point	110 - 114 °C	113.98000 °C
Moisture content	0-1 (%)	0.83 %
PH (5%, water) 25 ° C	5-7	6.30
Purity(HPLC)	99-100 (%)	99.25200 %
Specific Rotation [a] <sub>D</sub> 20/D(c=1 in H <sub>2</sub> O)	-34~-29 (°)	-31.73 °
Dioxane Test	Pass	Pass
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility (5% in H <sub>2</sub> O)	Pass	Pass



John Su  
QA & QC Manager