

## Certificate of Analysis

Date of Testing: 2024-08-08 17:29:03  
Date of Next Testing: 2026-08-08 17:29:03  
Product Name: **IPTG (isopropyl- $\beta$ -D-thiogalactopyranoside)**  
CAS Number: 367-93-1  
Specifications & Purity:  $\geq 99.0\%$ , Ultra Pure Grade  
Lot #: H2407489  
SKU #: **I274316**  
Version: **2**  
Analysis #: **393635**  
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	0.01
Moisture content	0-1 (%)	0.75 %
PH (5%, water) 25 ° C	5-7	6.81
Purity(HPLC)	99-100 (%)	99.33700 %
Specific Rotation [a] <sub>D</sub> 20/D(c=1 in H <sub>2</sub> O)	-34--29 (°)	-31.79 °
Melting point	110-114 (°C)	114.00000 °C
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility (5% in H <sub>2</sub> O)	Pass	Pass



John Su  
QA & QC Manager