



INDOFINE Chemical Company, Inc.

121 Stryker Lane, Bldg. 30, Suite 1 • Hillsborough, NJ 08844 • U.S.A.

Phone: (908) 359-6778 • FAX: (908) 359-1179

website: www.indofinechemical.com

e-mail: chemical@indofinechemical.com

Certificate of Analysis

Catalogue Number MB1008
Lot Number 001324-030412
Product **Isopropyl- β -D-thiogalactopyranoside,
dioxane free**

IPTG

Isopropyl- β -D-thiogalactoside

CAS Number 367-93-1
Molecular Formula C₉H₁₈O₅S
Molecular Weight 238.31

Appearance White to almost white crystalline powder
Solubility Clear colorless and Haze-free solution (5% in Water)
Melting Point 111-113 °C
Water Content (Karl Fisher) 0.38%
pH 6.33
Optical Rotation $[\alpha]_D^{20} = -32.16^\circ$ (C=1 in H₂O)
Infrared Spectrum Conforms to structure
Assay (anhydrous basis) 99.61% (HPLC)
Purity by HPLC 99.57%
Storage Store at 0-8 °C
Additional Information UV absorbance at 300 nm = 0.024
UV absorbance at 400 nm = 0.013
1,4-Dioxane = Not detected