



INDOFINE Chemical Company, Inc.

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Certificate of Analysis

Catalogue Number	MB1008
Lot Number	002290-090920
Product	Isopropyl-β-D-thiogalactopyranoside, dioxane free
	IPTG
CAS Number	367-93-1
Molecular Formula	C ₉ H ₁₈ O ₅ S
Molecular Weight	238.31

Appearance	White to almost white crystalline powder
Solubility	Soluble in water and Methanol
Melting Point	111.4 - 113.8 °C
Water Content (Karl Fisher)	0.44%
pH	6.38
Optical Rotation	[α] ²⁰ _D = -32.1 ° (C=1 in H ₂ O)
Infrared Spectrum	Conforms to structure
UV Ratios	Absorbance (5% solution in water) At 300 nm : 0.101 At 400 nm : 0.042
Related Substances	1,4-Dioxane : Absent
Assay (anhydrous basis)	99.92% (HPLC)
Purity by HPLC	99.56%
Storage	Store at 0 - 8 °C

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