



INDOFINE Chemical Company, Inc.

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Certificate of Analysis

Catalogue Number	MB1008
Product	Isopropyl- β -D-thiogalactopyranoside, dioxane free
Lot Number	001684-20180218 IPTG
CAS Number	367-93-1
Molecular Formula	C ₉ H ₁₈ O ₅ S
Molecular Weight	238.31

Appearance	White or off-white solid
Appearance of Solution	White solution (0.1 g in 10 ml water)
Solubility	Readily soluble in water, almost insoluble in ether
Heavy Metals	< 20 ppm
pH	6.7
Optical Rotation	[α] _D ²⁰ = - 31.2° (C=1 in H ₂ O)
Infrared Spectrum	Conforms to structure
Analysis by Mass Spectra	Conforms to standard
Residual Solvents	Dioxane: 0.0%
Residue On Ignition	0.01%
α -Isomer	0.01%
¹ H NMR	Conforms to structure
Purity by HPLC	99.4%
Purity by TLC	100%
Storage	Store at 0-8 °C

Prepared by:

Ramesh Mandadi

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Director of Operations

Reviewed and approved by:

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VP