



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	001684-20160604
Product	Isopropyl-β-D-thiogalactopyranoside, dioxane free
	IPTG
	Isopropyl- β -D-thiogalactoside
CAS Number	367-93-1
Molecular Formula	C ₉ H ₁₈ O ₅ S
Molecular Weight	238.3
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Appearance	White to almost white solid
Appearance of Solution	0.1g in 10mL of water: white solution
Solubility	Readily soluble in water, almost insoluble in ether
Heavy Metals	Max.20ppm
pH	6.7
TLC System	Assay by TLC: 100%
Optical Rotation	-31.3° (C=1 in H ₂ O)
Infrared Spectrum	Positive
Analysis by Mass Spectra	Complies
Residue On Ignition	0.01%
α -Isomer	0.02%
¹ H NMR	Complies
Assay	by HPLC: 99.4%
Purity by HPLC	99.4% (Stationary phase is C18 column, mobile phase is water-methol (V : V = 7 : 3) and the detecting wave length is 210 nm)
Storage	Store at 0-8 °C