



# INDOFINE Chemical Company, Inc.

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## *Certificate of Analysis*

Catalogue Number	MB1008
Lot Number	002290-070520
Product	<b>Isopropyl-<math>\beta</math>-D-thiogalactopyranoside, dioxane free</b>
	IPTG
CAS Number	367-93-1
Molecular Formula	C <sub>9</sub> H <sub>18</sub> O <sub>5</sub> S
Molecular Weight	238.31

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Appearance	White to almost white crystalline powder
Solubility	Soluble in water and Methanol
Melting Point	110.5 - 113.8 °C
Water Content (Karl Fisher)	0.29%
pH	6.31
Optical Rotation	[ $\alpha$ ] <sub>D</sub> <sup>20</sup> = -32.14 ° (C=1 in H <sub>2</sub> O)
Infrared Spectrum	Conforms to structure
UV Ratios	Absorbance (5% solution in water ) At 300 nm : 0.095 At 400 nm : 0.038
Related Substances	1,4-Dioxane : Absent
Assay (anhydrous basis)	99.54% (HPLC)
Purity by HPLC	99.79%
Storage	Store at 0 - 8 °C

Prepared by:  
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