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Certificate of Analysis

Catalogue Number MB1008
Lot Number 001684-20141101
Product **Isopropyl- β -D-thiogalactopyranoside,
dioxane free**

IPTG

Isopropyl- β -D-thiogalactoside

CAS Number 367-93-1
Molecular Formula $C_9H_{18}O_5S$
Molecular Weight 238.31

Appearance	White solid
Solubility	Readily soluble in Water, almost insoluble in Ether. White solution (0.5 g in 10 mL Water)
Heavy Metals	< 20 ppm
Optical Rotation	$[\alpha]_D^{20} = -31.5^\circ$ (C=1 in H_2O)
Infrared Spectrum	Conforms to standard
Loss on Drying	0.05%
Residual Solvents	Dioxane: 0.0%
Residue On Ignition	0.01%
Assay	99.3% (HPLC)
Purity by HPLC	99.4%
Purity by TLC	100%
Storage	Store at 0-8 °C
Additional Information	Alpha isomer: 0.02% UV absorbance: 5% solution at 300 nm: 0.05% 5% solution at 400 nm: 0.02%