

# *Chem-Impex International, Inc.*

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825 Dillon Drive

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## *Certificate of Analysis*

<b>Catalogue Number</b>	00194
<b>Lot Number</b>	001684-20160604
<b>Product</b>	<b>Isopropyl-<math>\beta</math>-D-thiogalactopyranoside,</b> IPTG Isopropyl- $\beta$ -D-thiogalactoside
<b>CAS Number</b>	367-93-1
<b>Molecular Formula</b>	C <sub>9</sub> H <sub>18</sub> O <sub>5</sub> S
<b>Molecular Weight</b>	238.3

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<b>Appearance</b>	White or off-white solid
<b>Appearance of Solution</b>	0.1g in 10mL of water: white solution
<b>Solubility</b>	Readily soluble in Water, almost insoluble in Ether
<b>Heavy Metals</b>	< 20ppm
<b>pH</b>	6.7
<b>TLC System</b>	Assay by TLC: 100%
<b>Optical Rotation</b>	-31.3° (C=1 in H <sub>2</sub> O)
<b>Infrared Spectrum</b>	Conforms to standard
<b>Analysis by Mass Spectra</b>	Conforms to standard
<b>Residue On Ignition</b>	0.01%
<b><math>\alpha</math>-Isomer</b>	0.02%
<b>Purity by HPLC</b>	99.4% (Stationary phase is C18 column, mobile phase is water-methol (V : V = 7 : 3) and the detecting wave length is 210 nm)
<b>Storage</b>	Store at 0-8 °C
<b>Additional Information</b>	Identification by HPLC: Conforms to standard Dioxane: 0

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**Remarks**

See material safety data sheet for additional information

For laboratory use only

**The foregoing is a copy of the Certificate of Analysis as provided by our supplier**

A handwritten signature in black ink, appearing to read 'Bala Kumar', with a stylized flourish at the end.

**Bala Kumar**  
**Quality Control Manager**