

# Chem-Impex International, Inc.

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## Certificate of Analysis

**Catalogue Number** 00541  
**Lot Number** 810081  
**Product** **Isopropyl- $\beta$ -D-thiogalactopyranoside, dioxane**

IPTG• $\frac{1}{2}$ dioxane

**Molecular Formula**  $C_9H_{18}O_5S \cdot \frac{1}{2}C_4H_8O_2$

**Molecular Weight** 282.4

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**Appearance** Colorless, fine crystals

**Solubility** Clear and colorless (1% in water)

**Melting Point** 121-123 °C

**Water Content (Karl Fisher)** 0.24%

**Optical Rotation**  $[\alpha]_D^{22} = -26.9^\circ$  (C=1 in H<sub>2</sub>O)

**Infrared Spectrum** Conforms to structure

**Loss on Drying** 14.9%

**Purity by TLC** > 99%

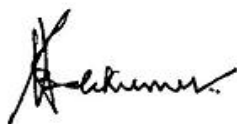
**Storage** Store at 0-8°C

**Additional Information** Dioxane: 14.9%

**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



**Bala Kumar**  
Quality Control Manager