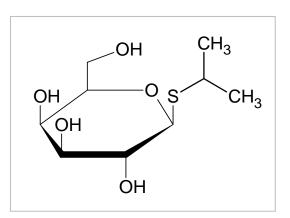


Ultrapure IPTG Datasheet

IPTG (Isopropyl 1-thio- β -D galactopyranoside) induces the transcription of the gene coding for β -galactosidase, an enzyme that promotes lactose utilization, by binding and inhibiting the LacI repressor. IPTG is widely used as it cannot be metabolized by E. coli so its concentration remains constant through the *in vivo* study. We offer ultrapure, analytical-grade IPTG (>99.5% purity).



Specification:

Formula: $C_9H_{18}O_5S$ Molecular Weight: 238.30 g/mol CAS: [367-93-1]

Purity: > 99.5% (HPLC, A220)

Appearance: White crystalline powder

Specific rotation (20°C, c=1, H2O): -31 to -33°
IR: Standard
Water content: 0.5% max. (KF)

Dioxane-free: Dioxane is not used for preparing IPTG

Solubility in water: >10% at 20°C pH 1% solution: 5.5-6.5

Solution (3% in H_2O , 21°C): Clear, colourless Solution (20% in EtOH, 21°C): Clear, colourless

Storage: Store frozen and keep dry. Warm to room

temperature before opening bottle. Protect

from light.

Ordering Information:

Product	Units	Order Code
Ultrapure IPTG (> 99.5%)	5 g	GEN-S-02122-5G
Ultrapure IPTG (> 99.5%)	25 g	GEN-S-02122

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