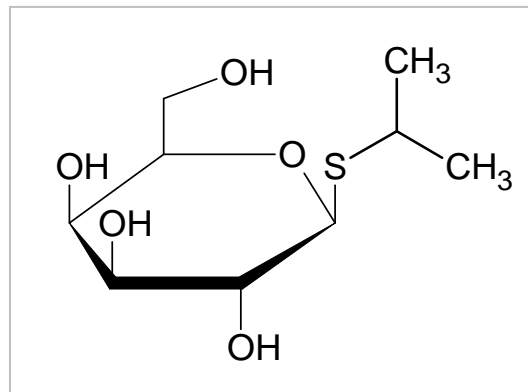


Ultrapure IPTG Datasheet

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 ₉ H ₁₈ O ₅ S
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, H ₂ O):	-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 ₂ O, 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-02122-25G

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