

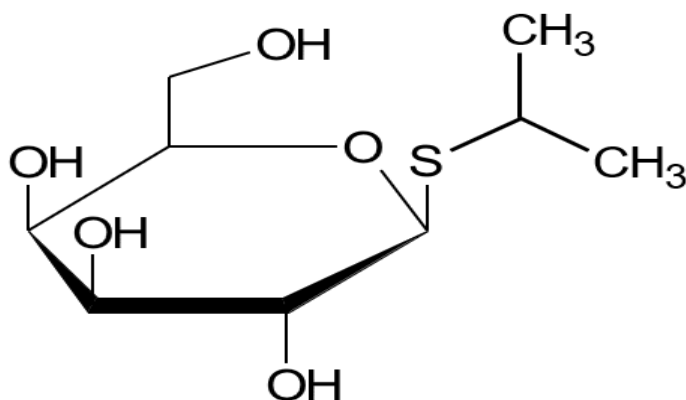
ultrapure IPTG (>99%)

#cat : NB-45-00030-1g	Size : 1g
#cat : NB-45-00030-5g	Size : 5g
#cat : NB-45-00030-5x5g	Size : 5x5g
#cat : NB-45-00030-25g	Size : 25g

Ultrapure IPTG

Datasheet

IPTG (Isopropyl 1-thio-β-D galactopyranoside) induces the transcription of the gene coding for βgalactosidase, 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	NB-45-00126-5
Ultrapure IPTG (> 99.5%)	25 g	NB-45-00126-25