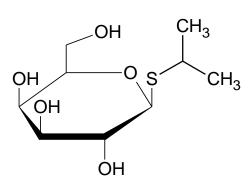


LU5004

IPTG, Ultrapure, Dioxane-free

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 *Lac* 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, colorless Solution (20% in EtOH, 21°C): Clear, colorless

Storage: Store at 4°C and keep dry. Warm to room

temperature before opening bottle. Protect

from light.

Ordering Information

Item	Size	Cat-No.
Ultrapure IPTG (> 99.5%)	10 g	LU5004-010
Ultrapure IPTG (> 99.5%)	25 g	LU5004-025