



PRODUCT INFORMATION

IPTG, dioxane-free

Pub. No. MAN0013136

Rev. Date 25 November 2016 (Rev. B.00)

#_

Lot: _

Expiry Date: _

Formula: $C_9H_{18}O_5S$

Molecular Weight: 238.3

Country of Origin: Italy

Assembled in (EU) Lithuania

Store at 4 °C

Components	#R0392	#R0393
IPTG, dioxane-free	5 g	5 × 5 g

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Description

IPTG (isopropyl- β -D-thiogalactopyranoside) is a highly stable synthetic analog of lactose. It inactivates the *lac* repressor and induces synthesis of β -galactosidase, an enzyme that promotes lactose utilization. The IPTG is used to induce the expression of cloned genes which are under control of the *lac* operon. It is used in conjunction with X-Gal to determine the *lac* phenotype in blue/white colony screening in cloning experiments.

Note

- Preparation of 23.83 mg/mL (100 mM) stock solution of IPTG in 0.22 μ m filtered (or sterile) water is recommended.
- For blue/white screening, 0.1 mM final IPTG concentration in LB (Luria Broth) media is recommended.

CERTIFICATE OF ANALYSIS

Purity of $\geq 99.0\%$ confirmed by HPLC.

Quality authorized by:

 Jurgita Zilinskiene

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