

IPTG Solution (1M)

Cat. # P1011-10, P1011-100, P1011-250

Also Known as: isopropyl-β-D-thiogalactopyranoside

CAS: 367-93-1 MW: 238.3 Da Formula: $C_9H_{18}O_5S$ Source: Synthetic

Form: 1 M solution in distilled water, filtrated through a 0.22 microon filter.

Solubility: Up to 1 M solution (238.3 g/l) can be prepared in water.

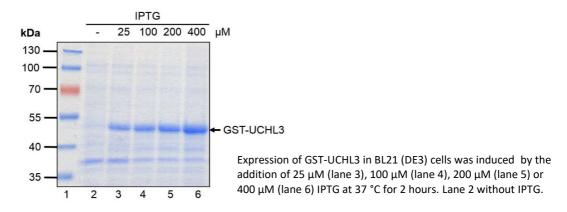
Quality Assurance: >99% by HPLC

Description: IPTG, Isopropyl β-D-1-thiogalactopyranoside, binds the lac repressor and induces expression

of β-galactosidase in E. coli. IPTG is widely used to induce the expression of cloned genes

under the control of the lac operon and to screen blue/white colony in X-gal plate.

Image(s):



Storage: Shipping by wet ice package. Store at -20 °C upon receiving.

Literature: J. Sambrook, D. W. Russell, Molecular Cloning: A Laboratory Manual, the Third edition (Cold

Spring Harbor Laboratory Press, Cold Spring Harbor, New York, A1.27, 2001) pp. 1.124-1.125.

Note: Upon receiving, aliquot the stock to an appropriate volume according your use and store

under -20°C. Avoid multiple freeze and thaw cycles.

