



Technical Data

I8500

IPTG Dioxane Free (Isopropyl-β-D-thiogalactoside(galactopyranoside))

1g
5g
10g
100g
250g
500g

Biochemicals

Storage: -20°C Shipping: RT

<p>IPTG is a carbohydrate used to induce b-galactosidase for the selection of recombinant plasmids. Used to select for lac Y mutants and to induce the lac operon in E. coli. IPTG will also induce the cellular content of lactose permease.</p> <p>Solubility: Colorless, clear, complete</p> <p>Identity (IR): Conforms to structure</p> <p>pH (5%): 5.0-7.0</p> <p>Dioxane: Not Detected</p> <p>Specific Rotation (C=1,H2O): -29° to -35°</p> <p>Melting Point: 109 -114.0°C</p> <p>Water (KF): 1.0%</p> <p>Blue-White Assay: Induces b-galactosidase in a pUC 18-containing strain.</p> <p>Storage and Stability: Pow der is very stable at RT. Stable for 12 months. For long-term storage of reconstituted product, aliquot and store at -20°C. Aliquots are stable for 6 months at -20°C. Further dilutions can be made in assay buffer.</p> <p>CAS Number: 367-93-1</p> <p>Molecular Formula: C₉H₁₈O₅S</p> <p>Molecular Weight: 238.31</p>	<p>Purity (HPLC): 99% Form: White crystalline powder.</p> <p>Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications without the expressed written authorization of United States Biological.</p>
--	--

US Biological application reference: 1. Alag, R. et al., (2010) Protein Science 19; 1577–1586. 2. Norgaard, P. & Winther, J.R., Biochem J. 358: 269–274 (2001). 3. Dennis, A.M., et al., Bioconjugate Chem. June 22, epub (2010). 1. Maniatis, et al., Molecular Cloning: A Laboratory Manual, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, N. Y., 2nd Ed., 4: 22-8.57 (1987).

Intended for research use only. Not for use in human, therapeutic, or diagnostic applications.

United States Biological - P.O Box 261 - Swampscott, Massachusetts 01907
800-520-3011 - Fax: 781-639-1768 - chemicals@usbio.net - www.usbio.net