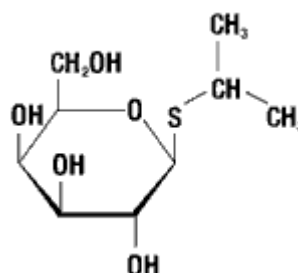


PRODUCT AND SAFETY DATA SHEET

PRODUCT NAME: IPTG (Isopropyl-β-D-thiogalactopyranoside)**CATALOG #** 10021/10021-1/10021-2**MOLECULAR INFORMATION:** C₉H₁₈O₅S
MWt: 238.3
[367-93-1]**PROPERTIES:**

Color & Form	White solid
Solubility	Soluble in water (5%)
Absorption/Emission	N/A
Extinction Coefficient	N/A

STORAGE AND HANDLING: Store the solid at 4 °C**APPLICATION:** IPTG induces synthesis of β-galactosidase, an enzyme that promotes lactose utilization. It is used to induce Lac Z gene expression in cloning experiments

IPTG is normally used as a 100 mM stock solution in water. Aliquots should be stored at -20°C and thawed only 3-4 times.

IPTG is also used in the overexpression of proteins. The recommended concentration for this application is 0.1 mM to 0.4 mM and will vary with the clone and strain of bacteria.

RELATED PRODUCTS**TOXICITY:** Not established. Not listed by NTP, IARC or OSHA.

FIRST AID:	Potentially harmful. Avoid prolonged or repeated exposure. Avoid getting in eyes, on skin, or on clothing. Wash thoroughly after handling. If eye or skin contact occurs, wash affected areas with plenty of water for 15 minutes and seek medical advice. In case of inhaling or swallowing, move individual to fresh air and seek medical advice immediately.
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