

Product Specification Sheet



Product Code : BIO-1010

Identifier : IPTG

Grade : Biotechnology

Appearance : White crystalline powder

Molecular Formula : $C_9H_{18}O_5S$

Molecular Weight : 238.3 g/mol

Product Description : IPTG induces synthesis of beta-galactosidase, an enzyme that promotes lactose utilization.
Used for detecting lacZ gene expression in cloning experiments.

Storage Condition : Store dry at -20°C. Protect from light.

<u>Assay:</u>	<u>Specification:</u>
Purity (HPLC)	≥ 99.00 %
Solubility (Water and methanol)	PASS
pH (5%, H ₂ O; 25°C)	5.0 – 7.0
Absorbance at 300nm (5%, H ₂ O)	≤ 0.15
Absorbance at 400nm (5%, H ₂ O)	≤ 0.05
Moisture	≤ 4.0 %
1,4-Dioxane	≤ 1 ppm
Specific Rotation	- 33 to - 30 °

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