



Specification

IPTG

CAS Number: 367-93-1
Molecular Formula: C₉H₁₈O₅S
Molecular Weight: 238.3
Storage: 2°C - 8°C

Test	Specification
Appearance:	White Crystalline Powder
Assay (HPLC):	98.0 - 101.0 %
Purity (HPLC):	≥ 99.0 %
1,4-Dioxane:	Not Detected
Absorbance @300nm (5% w/v sol in H ₂ O):	≤ 0.13
Absorbance @400nm (5% w/v solution in H ₂ O):	≤ 0.06
Identification:	IR Concordant with Standard
Melting Range:	110 - 114 °C
Moisture Content (KF):	≤ 1.0 %
pH (5% in water):	5.0 - 7.0
Solubility:	Soluble in Water and Methanol
Specific Optical Rotation:	-28.5 - -34.5 °

Approved:

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