

Certificate of Quality

Product Name: IPTG

Commonly used inducer for b-Galactosidase activity in many bacterial gene sequences controlled by the lac operon. IPTG is used in conjunction with X-Gal in the Blue/White colony screening assay.

Product Code:	A2903	CAS #:	367-93-1
Grade:	Ultra Pure	Formula:	C ₉ H ₁₈ O ₅ S
Appearance:	White crystalline powder	MW:	238.30
Reassay Date:	2 years after shipping date	Lot#:	See product label
Storage:	-20°C		

TEST	SPECIFICATION	RESULT
Purity (HPLC)	≥ 99%	Passes
Specific Optical Rotatio	-31.5 +/- 3.0°	Passes
pH (5% water)	5.0-7.0	Passes
Melting Point	110-114°C	Passes
1,4-Dioxane	None	None Detected
Solubility (water or methanol)	Clear and colorless	Passes
Identification (IR)	Passes	Passes
Moisture Content (KF)	≤ 1.0% w/w	Passes

Data Verified by M. He.

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