

IPTG (Molecular Biology Grade)

(Isopropyl- β -D-thiogalactopyranoside)

Description The lactose operon from E. Coli is under negative control of the Lac-repressor protein, which specifically binds to the operator of E. Coli genome. IPTG is the most used synthetic inducer of the Lac-operon as it is both active at very low concentrations and not subject to enzymatic degradation.

Parameter parameter	Methode method	Spezifikation specification
Aussehen appearance		Farbloses Pulver white crystalline powder
Summenformel Formula		C ₉ H ₁₈ O ₅ S
Gehalt Assay		99.8%
Löslichkeit: solubility:	(5 g in 100 ml water)	Klare, farblose Lösung Clear colourless solution
Optischer Drehwert: specific rotation	c = 1% in water	[α](20) _D = -32° +/- 1°
Wassergehalt water content	K.F.	max. 0.5%
Verunreinigungen Impurities	Dioxan	< 0.0001 %
Schmelzpunkt Melting Point		110°C – 112°C
Biologische Aktivität Biological Properties		Inhibitor free (tested in Lac- gene expression)
Molekulargewicht: Molecular weight:		238,30 g/mol 238.30 g/mole
CAS Number:		367-93-1

Versand: bei RT / Lagerung: bei -20°C, lichtgeschützt
shipping: at RT / storage: at -20°C, protect from light

<u>Cat.-No</u>	<u>Quantity:</u>
406010	1 g
406050	5 g

Bioron GmbH

Contact: Phone: +49-(0)-621- 5720 915 Fax:+49-(0)-621-5720 916
E-Mail: info@bioron.net NET: www.bioron.net