Product Specifications



An ISO 9001 Certified Company

IPTG (Isopropyl β -D-thiogalatopyranoside)

<u>Product Number</u>	<u>Size</u>
IB02100	1gm
IB02105	5gm
IB02125	25gm

PHYSICAL SPECIFICATIONS

Molecular Formula	C ₉ H ₁₈ O ₅ S 238.31 99.0% Min. 110 - 114°C Conforming as Standard < 1ppm
Colorimetric Transformation Assay	Pass

RECOMMENDED USE

IPTG is an inducer of β-galactosidase activity in *E.coli*. It is commonly used in conjunction with X-GAL to detect lac gene expression in cloning applications, thus allowing dection of recombinant molecules.

Prepare a stock solution of IPTG at 0.1M (23.8mg/ml) in sterile distilled water and filter sterilize through a 0.22 micron disposable filter. Add 3ml/L IPTG of stock solution to either of the solutions below. When pouring plates add 15gm bacto-agar per liter.

1.) 10X M9 Salts Solution	60gm	Na ₂ HPO
	30gm	KH ₂ PO ₄
	5gm	NaCl
	10gm	NH ₄ Cl

Adjust the pH to 7.4, add water to a final volume of 1L and autoclave.

M9 Salts Solution 100ml 10X M9 Salt Solution

1ml 0.01M CaCl₃ 2ml 1.0M MgSO

Adjust to a final volume of 1L with distilled water.

Supplement with (optional): 0.2% Casamino Acids 0.4% Glucose

40mg/ml Thiamine-HCl

2.) 2X YT Media: 16g/L Tryptone

10g/L Yeast Extract

5g/L NaCl

CAS NO.

CAS#

STORAGE

Store dessicated at -20°C. Warm to room temperature before opening. Keep tightly

WARNING

Classification: Acute Toxicity (Oral) - 4 Acute Toxicity (Dermal) - 4 Acute Toxicity (Inhalation) - 4

Serious Eve Damage/Eve Iritation - 2

Hazard Statements: H302-Harmful if swallowed • H312-WARNING! Harmful in contact with skin • H319-Causes serious eye irritation • H332-Harmful if inhaled

Precautionary Statements: P264-Wash face, hands, and any exposed skin thoroughly after handling • P270-Do not eat, drink, or smoke when using this product • P261-Avoid breathing dust/fume/gas/mist/vapors/spray • P271-Use only outdoors or in a well-ventilated area • P280-Wear protective gloves/protective clothing/eye protection/face protection • P302+P352-IF ON SKIN: Wash with plenty of water • P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present, and easy to do so. Continue rinsing • P312-Call a POISON CENTER or doctor if you feel unwell • P362-Take off contaminated clothing and wash it before reuse • P304+P312-IF INHALED: Remove person to fresh air and keep comfortable for breathing • P301+P312-IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell • P330-Rinse mouth • P501-Dispose of contents/container to an approved waste disposal plant.

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