

Certificate of Analysis

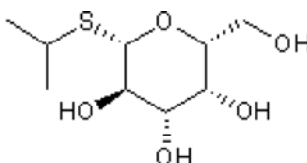
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Product Name: IPTG
CAS Number: 367-93-1
IUPAC Name: 1-Methylethyl 1-thio-β-D-galactopyranoside

Catalog No.: 5509 **Batch No.:** 5
EC Number: 206-703-0

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₉H₁₈O₅S
Batch Molecular Weight: 238.3
Physical Appearance: White solid
Solubility: water to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100.0% purity
Optical Rotation: [α]_D = -32 (Concentration = 1, Solvent = Water)
pH (5% aq): 7.0

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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CAS Number: 367-93-1

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IUPAC Name: 1-Methylethyl 1-thio-β-D-galactopyranoside

Description:

IPTG is used in combination with X-GAL (Cat. No. 5510) in cloning procedures requiring expression of β-galactosidase activity. Non-metabolizable analog of galactose. This product has <0.1% dioxane content.

Physical and Chemical Properties:

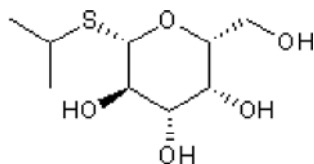
Batch Molecular Formula: C₉H₁₈O₅S

Batch Molecular Weight: 238.3

Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

water to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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