



Certificate of Analysis

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Product Name: IPTG Catalog No.: 5509 Batch No.: 6

CAS Number: 367-93-1 EC Number: 206-703-0

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Solubility: water to 100 mM Storage: Store at +4°C

Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC: Shows 99.6 % purity

Optical Rotation: $[\alpha]_D = -31.8$ (Concentration = 1, Solvent = Water)

pH (5% aq): 6.9

Product Information

Print Date: Oct 31st 2023

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

Description:

IPTG is an 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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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.