

Certificate of Analysis

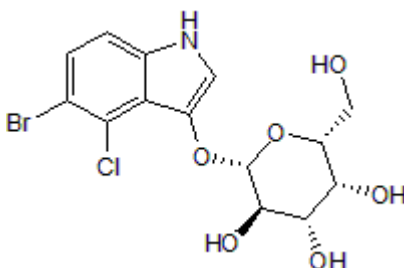
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Product Name: X-Gal
CAS Number: 7240-90-6
IUPAC Name: 5-Bromo-4-chloro-1*H*-indol-3-yl-β-D-galactopyranoside

Catalog No.: 5510
Batch No.: 1
EC Number: 230-640-8

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄H₁₅BrClNO₆
Batch Molecular Weight: 408.63
Physical Appearance: White solid
Solubility: DMSO to 100 mM
DMF to 50 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity
Optical Rotation: $[\alpha]_D = -62.2$ (Concentration = 1, Solvent = Water/DMF 1:1)

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

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Description:

Chromogenic substrate of β-Galactosidase that produces blue color. Used in combination with IPTG for detection of β-Galactosidase activity in bacterial colonies.

Physical and Chemical Properties:

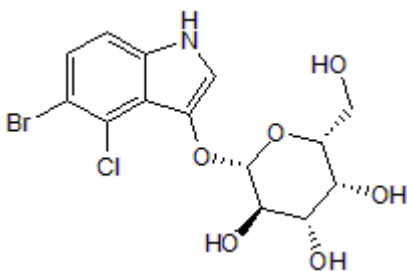
Batch Molecular Formula: C₁₄H₁₅BrClNO₆

Batch Molecular Weight: 408.63

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 100 mM

DMF to 50 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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