





CERTIFICATE OF ANALYSIS

PRODUCT: IPTG:

> [i-Propyl-β-D-ThioGalactoPyranoside]; [Isopropyl-β-D-thiogalactopyranoside; Isopropyl β-D-1-thiogalactopyranoside; Isopropyl-β-D-thiogalactoside]

C₉H₁₈O₅S, M.W. 238.3, CAS# [367-93-1]

I-1312 PRODUCT NUMBER: J1109 LOT NUMBER:

APPEARANCE: White crystalline powder

SPECIFICATIONS: RESULTS: 99.7% >99% ASSAY (HPLC): < 1% 0.1% WATER (KF):

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 $[\alpha] = -32^{\circ} \pm 1^{\circ} (c = 1 \text{ in})$ -32.1° **OPTICAL ROTATION:**

 H_2O)

5.0 - 7.07.0 pH:

>99% 100% **PURITY** (TLC):

>99% 99.6% **PURITY** (HPLC):

SOLUBILITY: Clear and colorless. Conforms

In 5%, H₂O

108 - 114°C 114.0 - 115.5°C **MELTING POINT:**

DIOXANE* (GLC): < 1 ppm Conforms

Conforming to structure Conforms IR (KBr):

COUNTRY of ORIGIN: Italy

Store desiccated at -20°C. PROTECT FROM LIGHT & STORAGE & HANDLING:

MOISTURE! HYGROSCOPIC! WARNING: HARMFUL!

CAUTION: For research use only. Not for human or drug use. The pharmacological and toxicological properties of this product have not been fully investigated. Use caution when handling. Do not use this compound if you are not fully trained or are unaware of the hazards involved.

(*) NOT USED IN THE MANUFACTURING PROCESS

Verified: KLS

A.G. Scientific, Inc., an ISO 9001:2008 company

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