

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]

PRODUCT NUMBER: I-1312

LOT NUMBER: L1549

APPEARANCE: White crystalline powder

	<u>SPECIFICATIONS:</u>	<u>RESULTS:</u>
ASSAY (HPLC):	>99%	99.24%
WATER (KF):	<1%	0.20%

OPTICAL ROTATION:	$[\alpha]_D^{20} = -32^{\circ} \pm 1^{\circ} (c=1 \text{ in H}_2\text{O})$	-32.14°
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pH:	5.0 - 7.0	5.9
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PURITY (TLC):	≥99%	>99%
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PURITY (HPLC):	≥99%	99.27%
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SOLUBILITY:	Clear and colorless, In 5%, H ₂ O	Conforms
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MELTING POINT:	108 - 114°C	111.0 – 114.0°C
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DIOXANE* (GLC):	<1 ppm	Conforms
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IR (KBr):	Conforming to structure	Conforms
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COUNTRY of ORIGIN: USA

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

Verified: PC