

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: J1080A
APPEARANCE: White crystalline powder

	<u>SPECIFICATIONS:</u>	<u>RESULTS:</u>
ASSAY (HPLC):	> 99%	99.8%
WATER (KF):	< 1%	0.1%
OPTICAL ROTATION:	$[\alpha]_D^{20} = -32^{\circ} \pm 1^{\circ} (c=1 \text{ in H}_2\text{O})$	-33.0
pH:	5.0 - 7.0	6.3
PURITY (TLC):	> 99%	100%
PURITY (HPLC):	> 99%	99.4%
SOLUBILITY:	Clear and colorless, In 5%, H ₂ O	Conforms
MELTING POINT:	108 - 114°C	112.8 – 113.8°C
DIOXANE* (GLC):	< 1 ppm	Conforms
IR (KBr):	Conforming to structure	Conforms
COUNTRY of ORIGIN:	Italy	
STORAGE & HANDLING:	Store 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.

() NOT USED IN THE MANUFACTURING PROCESS*

Verified: KLS