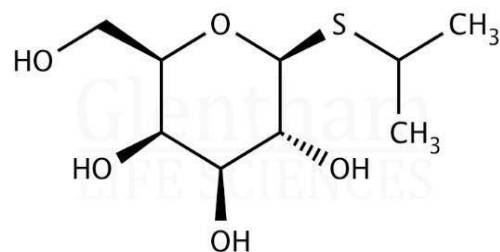


Ultrapure IPTG (>99%)

#Cat: NB-45-00030

Certificate of Analysis

Product Name	IPTG
Code	NB-45-00030
CAS Number	367-93-1
EINECS	206-703-0
MDL Number	MFCD00063273
PubChem SID	310275355
Batch Number	096XEV



Molecular Weight	238.30
Molecular Formula	C ₉ H ₁₈ O ₅ S
Storage Temp.	+4°C

Property	Specification	Batch 096XEV
Physical Description	White crystalline powder	White crystalline powder
Solubility	Soluble in water and methanol	Conforms
Identification	IR	Conforms
pH	5.0 - 7.0 (5% in water)	5.7
UV Absorbance (5% in water)	300nm: ≤ 0.15 400nm: ≤ 0.06	< 0.01 < 0.01
Melting Point	110 - 114 °C	113.4°C
Water (KF)	≤ 1.0%	0.8%
Individual Impurity	1,4-Dioxane: Absent	Conforms
Specific Optical Rotation ([α] ₂₀ /D)	-28.5 - -34.5 ° (c=1, water)	-31.9°
Purity (HPLC)	≥ 99.0%	99.3%
Assay (HPLC)	99.0 - 101.0 %	99.3%

Specification Version	v1.0
Manufacture Date	2023-06-01
Re-Test Date	2030-05-12

Neo Biotech confirms that the above referenced product conformed to the information displayed in this document on the quality release date.

This document was generated electronically and is therefore valid without signature.