

CERTIFICATE OF ANALYSIS

PRODUCT NAME:	IPTG (Isopropyl-β-(D)-Thiogalactopyranoside)
CAS NO.	367-93-1
BATCH NO.	25/MFM/3185
MANUFACTURING DATE:	26 th March 2025
RE-TEST DATE:	March 2028
MOLECULAR FORMULA:	C ₉ H ₁₈ O ₅ S
MOLECULAR WEIGHT:	238.3

TESTS	SPECS	RESULTS
Assay (HPLC)	100.4%	100.4%
Solubility (Sol. 5%, in H ₂ O)	Clear and colourless solution	Complies
pH (Sol. 5%, in H ₂ O)		7.0
Melting Point	112.6 – 113.8°C	Complies
Dioxane (GLC)*	< 1ppm	<1ppm
Purity by HPLC	99.9%	99.9%
Purity by TLC	100%	100.0%
IR	Conforming as standard	Complies
Water (KF)	0.1%	0.1%
Optical rotation (C=1 H ₂ O)	-31.7°	-31.7°

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11th June 2025