



Certificate of Analysis

Product: IPTG Dioxane Free (Isopropyl β -D-1-thiogalactopyranoside)

Cat. Number: ASC-1017		Date of manufacture:	1 May 2025
Lot Number: 280501		Retest Date:	1 April 2030
Storage Temperature: 2-8 °C		Molecular Weight/Formula:	238.30 / C ₉ H ₁₈ O ₅ S
No.	Property	Specification/Limit	Test Results
1	Form and Color	White to slightly Off-white, Crystalline Powder	White, Crystalline Powder
2	Color of Solution (5 % in water)	Colorless	Colorless
3	Solubility	Soluble in water and methanol	Complies
4	Turbidity (0.5 % in water)	0.2 NTU	max. 2.0 NTU
5	pH (5 % in water)	5.0 - 7.0	6.52
UV ABSORBANCE (5% w/v Sol in water)			
6	1) at 300 nm	Not more than 0.13	0.057
	2) at 400 nm	Not More than 0.06	0.018
7	Melting Range	110 °C - 114 °C	110.6 °C - 112.4 °C
8	Purity (HPLC)	> 98.0 % w/w	99.52%
9	Assay (HPLC) (Anhydrous Basis)	98.0% - 101.0% w/w	99.48%
10	1,4-Dioxane	Should be absent	Absent
11	Moisture Content by (K. Fischer)	Not more than 1.0% w/w	0.41% w/w
12	Specific Optical Rotation [alpha] _D (C = 1.0% in water, 20 °C)	-34.5° to -28.5°	-31.10°
13	FT-IR Spectrum	corresponds	corresponds to reference spectrum

Note: The above results are complies with the specification.

Signature: *Hass Salimi*

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Storage Conditions: Store at 2°-8°C.

Intended Use: Biotechnology and Molecular Biology

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