

Certificate of Analysis

IPTG, Isopropyl-beta-Thiogalactopyranoside

Cat No : I0355

Lot No : 11102320

TEST	Specification	Result
Appearance	Fine White to Off White Powder	PASS
Identification by IR	Confirm	Confirmed
Purity (by HPLC, on anhydrous basis)	≥ 98.0 %	> 99.66 %
pH 5% in water	5.0 - 7.0	6.18
Absorbance 5 % w/v , 300 nm	≤ 0.13	0.094
Absorbance 5 % w/v , 400 nm	≤ 0.06	0.024
Melting Range	110 – 114 °C	112 - 112.7 °C
Moisture Content by KF	≤ 1.0 % w/w	0.35 % w/w
1,4-Dioxane	None	Absent
Specific of Optical Rotation (c = 1.0% in water)	- 34.5 ° to - 28.5 °	-30.44 °

This document has been produced electronically and is valid without signature

Date of Print : 5. 29. 2024