

# Certificate of Analysis



SCIENTIFIC

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## IPTG (Isopropyl $\beta$ -D-thiogalactopyranoside)

### PRODUCT NUMBER

IB02100 \_\_\_\_\_ 1gm  
IB02105 \_\_\_\_\_ 5gm  
IB02125 \_\_\_\_\_ 25gm

### LOT NO.

Lot# \_\_\_\_\_ 23D3002

### CAS NO.

CAS# \_\_\_\_\_ 367-93-1

### STORAGE

Store desiccated at -20°C. Warm to room temperature before opening. Keep tightly sealed.

### SPECIFICATIONS

	Specification	Analysis	Disposition
Abs. @300nm (5%, water)	$\leq 0.13$	0.056	PASS
Abs. @400nm (5%, water)	$\leq 0.06$	0.018	PASS
1,4-Dioxane Test	PASS / FAIL	Absent	PASS
Identification (IR)	PASS / FAIL	PASS	PASS
Melting Point	110 - 114°C	110.2 - 113.1°C	PASS
pH (5%, water) @ 25°C	5.0 - 7.0	6.132	PASS
Solubility (in water and methanol)	PASS / FAIL	PASS	PASS
Specific Rotation (1%, water)	-34.5 to -28.5 degrees	-31.94 degrees	PASS
Purity (HPLC)	98 - 101%	99.61%	PASS
Assay by HPLC (on anhydrous basis)	98 - 101% w/w	99.36%	PASS

### DATE OF

Manufacture Date: \_\_\_\_\_ 01/19/2023

Reassay Date: \_\_\_\_\_ 01/2028

### CERTIFICATION

We certify that this batch conforms to the specifications listed above and has been reviewed by a quality representative. This document has been electronically produced and signed by IBI SCIENTIFIC.

Abigail Wood

Quality Control

04/18/23

Date

FOR RESEARCH AND DEVELOPMENT PURPOSES ONLY

Building Quality Scientific.

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