

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-09-14 15:46:44

Date of Next Testing: 2027-09-14 15:46:44

Product Name: **Isopropyl beta-D-thiogalactoside (IPTG)**

CAS Number: 367-93-1

Specifications & Purity: $\geq 98\%$

Lot #: I2411249

SKU # **I104812**

Version **0**

Analysis #: **403754**

Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Carbon by Elemental Analysis	44.9-45.9 (%)	45.08400 %
Purity(HPLC)	98-100 (%)	100.00000 %
Water by Karl Fischer	0-5 (%)	0.40570 %
Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in H}_2\text{O})$	-35--29 (°)	-32.26700 °
Melting point	109-121 (°C)	113.76000 °C
Appearance (I104812Color)	White to off-white	White to off-white
Appearance (I104812Form)	Powder, Needles, Crystals	Powder, Needles, Crystals
D2O NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in H ₂ O , Colorless Clear(49.00 - 51.00 mg/ml)	pass	Pass



John Su
QA & QC Manager