

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-11-29 09:55:18
 Date of Next Testing: 2027-11-29 09:55:18
 Product Name: **Isopropyl beta-D-thiogalactoside (IPTG)**
 CAS Number: 367-93-1
 Specifications & Purity: $\geq 98\%$
 Lot #: K2422483
 SKU #: **I104812**
 Version: **0**
 Analysis #: **427607**
 Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Carbon by Elemental Analysis	44.9-45.9 (%)	45.22300 %
Purity(HPLC)	98-100 (%)	100.00000 %
Water by Karl Fischer	0-5 (%)	0.55350 %
Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in H}_2\text{O})$	-35--29 (°)	-31.71300 °
Melting point	109-121 (°C)	113.93000 °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