

Certificate of Analysis

Date of Testing: 2024-06-15 14:56:59

Date of Next Testing: 2027-06-15 14:56:59

Product Name: **Isopropyl beta-D-thiogalactoside**

CAS Number: 367-93-1

Specifications & Purity: >98.0%

Lot #: F2412254

SKU #: **I104812**

Version: **0**

Analysis #: **362257**

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

Parameter	Limit Values	Result
Carbon by Elemental Analysis	44.9-45.9 (%)	45.36%
Purity(HPLC)	98-100 (%)	99.76800%
Water by Karl Fischer	0-5 (%)	0.36%
Specific Rotation [α] ₂₀ /D(c=1 in H ₂ O)	-35--29 (°)	-31.99°
Melting point	109-121 (°C)	114.53000 °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