

Certificate of Analysis

Date of Testing: 2024-09-14 14:52:27
Date of Next Testing: 2027-09-14 14:52:27
Product Name: **Isopropyl beta-D-thiogalactoside**
CAS Number: 367-93-1
Specifications & Purity: >98.0%
Lot #: I2411250
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 (%)	45.08 %
Purity(HPLC)	98-100 (%)	100.00000 %
Water by Karl Fischer	0-5 (%)	0.41 %
Specific Rotation [α] ₂₀ /D(c=1 in H ₂ O)	-35--29 (°)	-32.27 °
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