

Certificate of Analysis

Date of Testing: 2023-11-23 11:15:32
Date of Next Testing: 2026-11-22 11:15:32
Product Name: **Isopropyl beta-D-thiogalactoside**
CAS Number: 367-93-1
Specifications & Purity: >98.0%
Lot #: K2316053
SKU #: **I104812**
Analysis: **245056**
Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Purity(HPLC)	98-100 (%)	99.89900%
Water by Karl Fischer	0-5 (%)	0.27%
Specific Rotation [α] ₂₀ /D(c=1 in H ₂ O)	-35--29 (°)	-33.35°
Melting point	109-121 (°C)	113.78000 °C
Carbon by Elemental Analysis	44.9-45.9 (%)	44.90%
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