

## Certificate of Analysis

Date of Testing: 2022-11-08 14:48:26  
Date of Next Testing: 2025-11-07 14:48:26  
Product Name: **Isopropyl beta-D-thiogalactoside**  
CAS Number: 367-93-1  
Specifications & Purity: >98.0%  
Lot #: K2204549  
SKU #: **I104812**  
**Analysis: 147426**  
Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Carbon by Elemental Analysis	44.9-45.9 (%)	45.35 %
Purity(HPLC)	98-100 (%)	99.63800 %
Water by Karl Fischer	0-5 (%)	0.26 %
Specific Rotation [α] <sub>20</sub> /D(c=1 in H <sub>2</sub> O)	-35--29 (°)	-32.74 °
Melting point	109-121 (°C)	118.64000 °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 <sub>2</sub> O, Colorless Clear(49.00 - 51.00 mg/ml)	pass	Pass



John Su  
QA & QC Manager