

## Certificate of Analysis

Date of Testing: 2022-06-10 17:42:04  
 Date of Next Testing: 2025-06-09 17:42:04  
 Product Name: **Isopropyl beta-D-thiogalactoside**  
 CAS Number: 367-93-1  
 Specifications & Purity: >98.0%  
 Lot #: F2206108  
 SKU #: **I104812**  
**Analysis: 088384**  
 Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Carbon by Elemental Analysis	44.9-45.9 (%)	44.92 %
Purity(HPLC)	98-100 (%)	99.95900 %
Water by Karl Fischer	0-5 (%)	0.63 %
Specific Rotation [α] <sub>20</sub> /D(c=1 in H <sub>2</sub> O)	-35--29 (°)	-32.42 °
Melting point	109-121 (°C)	113.40000 °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