

Certificate of Analysis

Date of Testing: 2022-11-08 14:32:15
Date of Next Testing: 2025-11-07 14:32:15
Product Name: **Isopropyl beta-D-thiogalactoside**
CAS Number: 367-93-1
Specifications & Purity: >98.0%
Lot #: K2204551
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] ₂₀ /D(c=1 in H ₂ 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 ₂ O, Colorless Clear(49.00 - 51.00 mg/ml) | pass | Pass |



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