

Certificate of Analysis

Date of Testing: 2023-07-21 17:40:44
Date of Next Testing: 2026-07-20 17:40:44
Product Name: **Isopropyl beta-D-thiogalactoside**
CAS Number: 367-93-1
Specifications & Purity: >98.0%
Lot #: G2315302
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 |



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