

Certificate of Analysis

Date of Testing: 2022-06-07 15:45:29
Date of Next Testing: 2026-06-06 15:45:29
Product Name: **L-Dithiothreitol**
CAS Number: 16096-97-2
Specifications & Purity: $\geq 95\%$
Lot #: F2202182
SKU #: **D121076**
Version: 5
Analysis #: **082526**
Storage Temperature: Store at -20°C , Argon charged

Parameter	Limit Values	Result
Melting point	48-53 ($^{\circ}\text{C}$)	51.40000 $^{\circ}\text{C}$
Specific Rotation $[\alpha]_{20}^{\text{D}}$ (c=2.5 in MeOH)	22-28 ($^{\circ}$)	23.80 $^{\circ}$
Purity(Iodometric Titration)	94.5-105.5 (%)	97.50%
Solubility, Colorless, clear to lightly hazy(50 mg/ml of H ₂ O)	pass	Pass
Proton NMR spectrum	Conforms to structure	Conforms to Structure
Appearance(D121076)	white crystalline powder	white crystalline powder



John Su
QA & QC Manager