

Certificate of Analysis

Date of Testing: 2025-08-18 14:50:27

Date of Next Testing: 2029-08-17 14:50:27

Product Name: **L-Dithiothreitol**

CAS Number: 16096-97-2

Specifications & Purity: $\geq 95\%$

Lot #: K2104016

SKU #: **D121076**

Version: **5**

Analysis #: **555015**

Storage Temperature: Store at -20°C, Argon charged

Parameter	Limit Values	Result
Melting point	48-53 (°C)	51.09800 °C
Specific Rotation $[\alpha]_{20/D(c=2.5 \text{ in MeOH})}$	22-28 (°)	27.30°
Purity(Iodometric Titration)	94.5-105.5 (%)	98.60 %
Solubility, Colorless, clear to lightly hazy (50 mg/ml pass of H ₂ O)		Pass
Proton NMR spectrum	Conforms to structure	Conforms to Structure
Appearance(D121076)	White to Almost white powder to crystal	White to Almost white powder to crystal



John Su
QA & QC Manager