

Certificate of Analysis

Date of Testing: 2025-03-06 11:09:55

Date of Next Testing: 2029-03-05 11:09:55

Product Name: **L-Dithiothreitol**

CAS Number: 16096-97-2

Specifications & Purity: $\geq 95\%$

Lot #: B2528414

SKU #: **D121076**

Version: **5**

Analysis #: **473949**

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

Parameter	Limit Values	Result
Melting point	48-53 (°C)	51.60000 °C
Specific Rotation $[\alpha]_{20/D(c=2.5 \text{ in MeOH})}$	22-28 (°)	25.70°
Purity(Iodometric Titration)	94.5-105.5 (%)	98.10 %
Appearance(D121076)	White to Almost white powder to crystal	White to Almost white powder to crystal
Solubility, Colorless, clear to lightly hazy (50 mg/ml pass of H ₂ O)		Pass
Proton NMR spectrum	Conforms to structure	Conforms to Structure



John Su
QA & QC Manager