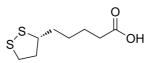


Certificate of Analysis

Product Name:	Lipoic acid
Cat. No.:	CS-5076
CAS No.:	1200-22-2
Batch No.:	L742494
Chemical Name:	1,2-Dithiolane-3-pentanoic acid, (3R)-

PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula: Molecular Weight: Storage: Chemical Structure: C₈H₁₄O₂S₂ 206.33 2-8°C, protect from light, stored under nitrogen



ANALYTICAL DATA

Appearance:	Light yellow to yellow (Solid)
¹ H NMR Spectrum:	Consistent with structure
Purity (NMR):	≥98.0%
Water(KF):	0.15%
Optical Rotation:	118.5°(C=0.01g/ml, ETOH, 20°C, 589nm)
Conclusion:	The product has been tested and complies with the given specifications.

Caution: Product has not been fully validated for medical applications. For research use only.

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