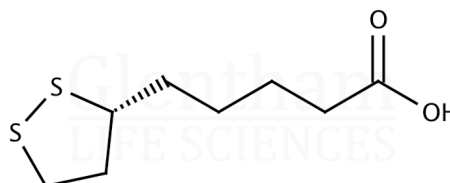


Certificate of Analysis

Product Name	(R)-(+)-alpha-Lipoic acid
Glentham Code	GK0418
CAS Number	1200-22-2
MDL Number	MFCD01631142
PubChem SID	310275826
Batch Number	048HCP

Molecular Weight	206.33
Molecular Formula	$C_8H_{14}O_2S_2$
Storage Temp.	-20°C



Property	Specification	Batch 048HCP
Physical Description	Faint yellow to yellow powder or crystals	Yellow powder
Identification (IR)	To conform to standard	Conforms to standard
Specific Optical Rotation ($[\alpha]_{20/D}$)	+110.0 - +120.0 ° (c=1, ethanol)	113.6°
Melting Point	46.0 - 52.0 °C	48.8°C
Assay	≥ 98.0%	99.2%

Specification Version	v1.1
Manufacture Date	2023-10-17
Re-Test Date	2030-11-16

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check www.glentham.com or contact us using the details above for the current version of this document.

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