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Certificate of Analysis

Product Name Glentham Code CAS Number EINECS MDL Number Batch Number	DL-alpha-Lipoic acid, USP grade GK1941 1077-28-7 214-071-2 MFCD00005474 689PRB	s,r ^o
Molecular Weight Molecular Formula Storage Temp.	206.33 C ₈ H ₁₄ O ₂ S ₂ +4°C	`s´III Sollan Clark

Property	Specification	Batch 689PRB
Physical Description	Pale yellow to dark yellow powder	Yellow powder
Identification	A, B, according to USP	Conforms
Residue on Ignition	≤ 0.1%	0.03%
Heavy Metals	≤ 10ppm	Conforms
Any Individual Impurity	≤ 0.1%	0.07%
Total Impurities	≤ 2.0%	0.09%
Chromatographic Purity	To pass test	Conforms
Melting Point	60.0 - 62.0 °C	62.0 °C
Specific Optical Rotation ($[\alpha]$ 20/D)	-1.0 - +1.0 ° (c=5, ethanol)	Conforms
Loss on Drying	≤ 0.2% (40°C, 3h)	Conforms
Assay	99.0 - 101.0 % (dried basis)	99.4%
Pharmacopoeia Specification(s)	USP	Conforms

Specification Version	v1.0
Manufacture Date	2021-06-15
Re-Test Date	2030-01-11

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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