

CERTIFICATE OF ANALYSIS

NO:251682

Product Name: Alpha Lipoic Acid	Batch No.: ALA.2507101
Manu.Date: JUL,10, 2025	Expiry Date: JUL,09, 2027
Country of Origin: China	Quantity: 150kgs
Seal and store away from light, at room temperature, better under 25 °C.	

Items		Specifications	Results
Appearance		Slightly yellow crystal powder	Conforms
Identification		IR-Spectroscopy	Conforms
		Liquid chromatography	Conforms
Melting Point		60.0~62.0 °C	61.8 °C
Specific rotation		-1.0°to +1.0°	0°
Loss on drying		0.2% max	0.06%
Residue on Ignition		0.1% max	0.02%
Heavy Metals		10ppm max	Conforms
Lead		3ppm max	<3ppm
Arsenic		1ppm max	<1ppm
Cadmium		1ppm max	<1ppm
Mercury		0.1ppm max	<0.1ppm
Chromatographic purity	Individual Impurities	0.1% max	0.01%
	Total Impurities	2.0% max	0.03%
	Chromatographic purity(TLC)	Conforms	Conforms
Residual Solvents	Cyclohexane	3880ppm max	670ppm
	Ethyl Acetate	500ppm max	50ppm
	Toluene	20ppm max	10ppm
Total aerobes counts		1000 cfu/g max	<10 cfu/g
Moulds and Yeasts		100 cfu/g max	<10 cfu/g
E.coli		Absence/g	Not Detectable
Staphylococcus aureus		Absence/g	Not Detectable
Salmonella		Absence/g	Not Detectable
Particle Size		100% through 40 mesh	Conforms
Loose Bulk Density			0.37g/ml
Assay (dried basis)		99.0%~101.0%	99.1%
Conclusion		Conformed USP2021	