

Certificate of Analysis

Product and Batch Information			
Product Name:	Alpha Lipoic Acid	Country of Origin:	P.R. China
CAS No.:	1077-28-7	Molecular Weight:	206.33
Molecular Formular:	C ₈ H ₁₄ O ₂ S ₂	Batch No:	CS-ALA-230401
Manufacture Date:	Apr.4, 2023.	Retested Date:	Apr. 3, 2025.
Item	Specification	Result	Test Method
Active Ingredients			
Assay(On Dry Basis)	99%~ 101%	99. 17%	HPLC
Physical Control			
Appearance	Fine powder	Complies	Visual
Color	Light yellow	Complies	Visual
Odor	Characteristic	Complies	Organoleptic
Taste	Characteristic	Complies	Organoleptic
Identification	Meet the requirements	Complies	HPLC
Particle Size	100% pass 40 mesh	Complies	40 mesh screen
Melting Point	60~62°C	61.3°C	USP
Specific Rotation	- 1.0° to + 1.0°	0°	USP
Loss on Drying	0.2% Max	0.02%	USP
Residue on Ignition	0. 1% Max	0.01%	USP
Chemical Control			
Heavy Metals	NMT10 PPM	Conforms	ICP-MS
Lead(Pb)	NMT3 PPM	Conforms	ICP-MS
Cadmium(Cd)	NMT1 PPM	Conforms	ICP-MS
Mercury(Hg)	NMT0.1 PPM	Conforms	ICP-MS
Single impurity	0. 1% Max	Conforms	HPLC
Total impurities	2.0% Max	Conforms	HPLC
Limit of Polymer Content	2.0% Max	<2.0%	TLC
Cyclohexane Residue	3880ppm Max	Conforms	Gas Chromatography
Ethyl Acetate Residue	5000ppm Max	Conforms	Gas Chromatography
Toluene Residue	890ppm Max	Conforms	Gas Chromatography
Microbiological Control			
Total Plate Count	1000cfu/g Max	< 10cfu/g	AOAC
Yeast& Mold	100cfu/g Max	< 10cfu/g	AOAC
E. Coli	Negative	Negative	AOAC
Salmonella	Negative	Negative	AOAC
Packing and Storage			
Packing	Packed in paper drums with plastic and foil bags. 25 Kg/ Drum, H: 30 cm, D: 40 cm.		
Storage	Store in a well- closed container away from moisture and direct sunlight.		
Shelf Life	2 years if sealed and stored properly.		

Analyst: Jiale Zhang

Approver: Fei Chen

