



Shaanxi LonierHerb Bio-Technology Co., Ltd.

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V2.01-2021

Certificate of Analysis

Product Information			
Product Name	Alpha Lipoic Acid Powder (Thioctic Acid)		
CAS No.	1077-28-7	Report Number	ALA20241137
Batch Number	ALA241112	Manufacture Date	2024/11/12
Batch Quantity	500Kg	Expiry Date	2026/11/11
Test Items	Test Standard	Test Result	Test Method
Appearance	Light Yellowish Crystalline Powder	Conforms	Visual
Assay	99.0% ~ 101.0%	99.35%	HPLC
Identification	Positive	Conforms	FTIR/HPLC
Melting Point	60°C ~ 62°C	Conforms	USP<741>
Loss on Drying	<0.2 %	0.17%	USP<731>
Residue on Ignition	<0.1%	0.03%	USP<281>
Specific Rotation	-1.0° ~ +1.0°	Conforms	USP<781>
Bulk Density	≥ 0.3 g/ml	0.49g/ml	USP<616>
Tapped Density	≥ 0.4 g/ml	0.52g/ml	USP<616>
Particle Size	80% through 60 mesh	Conforms	USP<786>
Cyclohexane	<3880ppm	560ppm	GC
Ethyl Acetate	<5000ppm	85ppm	GC
Toluene	<890ppm	Not Detectable	GC
Heavy Metals	<10ppm	Conforms	USP<231>
Lead (Pb)	<1ppm	Conforms	USP<730>
Arsenic (As)	<1ppm	Conforms	USP<730>
Cadmium (Cd)	<0.2ppm	Conforms	USP<730>
Mercury (Hg)	<0.1ppm	Conforms	USP<730>
Limit of Polymer Content	Conforms to standard	Conforms	TLC
Single Impurity	<0.1%	0.06%	HPLC
Total Impurities	<2.0%	0.03%	HPLC
Total Aerobic Count	≤ 1000cfu/g	Conforms	USP<2021>
Yeast & Moulds	≤ 100cfu/g	Conforms	USP<2021>
E-Coli	Negative	Conforms	USP<2021>
Salmonella	Negative	Conforms	USP<2021>
Staphylococcus Aureus	Negative	Conforms	USP<2021>
Conclusion			
Conclusion	To be complied with in-house Specification and USP2021		
Shelf Life	2 years when properly stored.		
Storage	Store in cool & dry place, not freeze. Keep away from strong light.		

Tested by: 张丽娜

Checker: 李明

Approved:

