



西安本清生物科技有限公司

XI'AN CORE PURE BIO & TECH CO., LTD.

Add.: Rm 30-10602, No. 1 Fangjian Road, Baqiao District, Xi'an
City. Shaanxi Province 710038, P. R. China

CERTIFICATE OF ANALYSIS

Product Name	Alpha Lipoic Acid Powder	Molecular Formula	C ₈ H ₁₄ O ₂ S ₂
Batch Number	ALA.2010121	Manufacture Date	Oct.12, 2020
Report Date	Oct.14, 2020	Expiry Date	Oct.11, 2022
Quantity	1000kg	Country of Origin	China

Item	Specification	Result	Test method
Description	Slightly yellow crystal powder odor, tasteless	Conforms	Organoleptic
Identification	Meet the requirements	Conforms	HPLC
Melting point	60~62°C	61.7°C	USP
Specific Rotation	-1.0° ~+1.0°	0°	USP
Loss on drying	≤0.2%	0.19%	USP
Residue on ignition	≤0.1%	0.02%	USP
Heavy Metals	< 10ppm	Conforms	USP
Lead	< 3ppm	Conforms	USP
Cadmium	< 1ppm	Conforms	USP
Mercury	< 0.1ppm	Conforms	USP
Single Impurity	≤0.10%	0.03%	HPLC
Total Impurities	≤2.0%	0.04%	HPLC
Limit of polymer content	Conforms	Conforms	TLC
Cyclohexane	≤3880ppm	1830ppm	GC
Ethyl Acetate	≤500ppm	210ppm	GC
Total Plate Count	<1,000cfu/g	<10cfu/g	USP
Yeast & Mould	<100 cfu/g	<10cfu/g	USP
E.Coli/ Salmonella	Absent/g	Not detective	USP
Staphylococcus aureus	Absent/g	Not detective	USP
Particle size	100% through 40mesh	Conforms	USP
Loose Bulk Density	/	0.40 g/ml	USP
Assay	99%~101%	99.1%	HPLC
Conclusion	Conformed USP 43		

Storage: Store in tight, light-resistant containers, avoid exposure to direct sunlight, moisture and excessive heat.

Shelf Life: 24 months if store under the conditions above and stay in original packaging.

QC: Frank Yao

Checker: Simon He