

**ACROSS BIOTECH**

MAKE A DIFFERENCE

Certificate of Analysis

Item	Alpha Lipoic Acid(S) powder	CAS No.	1077-28-7
MFG Date	2022/02/20	EXP Date	2024/02/19
Quantity	1,000 kgs	Package	25kg/drum
Batch No.	CS-ALA-220220		

Item	Specification	Result
Assay	99%-101%	99.68%
Appearance	Fine crystal powder	Complies
Color	Slight yellow to yellow	Complies
Identification	Positive	Complies
Particle size	100% pass 40 mesh	Complies
Melting point	60-62°C	61.5
Specific rotation	-1.0° ~+1.0°	0
Loss on drying	≤0.2%	0.07%
Residue on ignition	≤0.1%	0.06%
Heavy metals	≤10ppm	Complies
Arsenic	≤1ppm	Complies
Mercury	≤0.1ppm	Complies
Cadmium	≤1ppm	Complies
Lead	≤3ppm	Complies
Single impurity	≤0.1%	0.02%
Total impurities	≤2.0%	0.03%
Limit of polymer content	Confirms	Complies
Solvent residual	Meet USP standard	Complies
Total plate count	≤1000 cfu/g	Complies
Yeast & Mold	100 cfu/g	Complies
E. Coli	Negative	Complies
Salmonella sp.	Negative	Complies
Staph aureus	Negative	Complies
Conclusion	Complies	

Tested by: Meng Cheng

Approved: Yun Li