



CERTIFICATE OF ANALYSIS

Product Name	Alpha Lipoic Acid USP	Packing	25kg/Drum		
Molecular Formula	C8H14O2S2	Molecular Weight	206.3182		
Batch No.	210410	Quantity	1500kgs		
MAN. Date	2021/04/10	EXP. Date	2023/04/09		
Items & Results					
Assay (By HPLC)	98.0%~102.0%		99.7%		
Item	Specification		Result		
Appearance	Slightly yellow crystal powder		Conforms		
Identification	Meets the requirements		Conforms		
Melting Point	60-62°C		61.7°C		
Specific rotation	-1.0° to +1.0°		0°		
Loss on drying	≤0.20%		0.06%		
Residue on ignition	≤0.10%		0.02%		
Heavy Metals	≤10ppm		<10ppm		
Lead	≤3ppm		<3ppm		
Cadmium	≤1ppm		<1ppm		
Mercury	≤0.1ppm		<0.1ppm		
Chromatographic purity					
Single Impurity/HPLC	≤0.10%		0.04%		
Total Impurities/HPLC	≤2.0%		0.08%		
Limit of polymer content/TLC	Conforms		Conforms		
Residual Solvent By GC					
Cyclohexane	≤3880ppm		635ppm		
Ethyl Acetate	≤5000ppm		72ppm		
Total plate counts	≤1000CFU/g		<10CFU/g		
Moulds and Yeasts	≤100CFU/g		<10CFU/g		
E.coli/Salmonella	Absence/g		Not detect		
Staphylococcus aureus	Absence/g		Not detect		
Particle Size	100% through 40 mesh		Conforms		
Conclusion	Conforms with USP43 Standard				
Storage	Alpha Lipoic Acid must be stored below 25°C.				
Analyst	马亮	Review	刘爱琴	Supervisor of QC	李敏

