



Xi'an Green Spring Technology

Certificate of Analysis

Product Name	Alpha Lipoic Acid		
Cas No	1077-28-7		
Standard	USP Dietary Supplement		
Batch Number	20210809	Manufacture Date	20210809
Report Date	20210809	Expiry Date	20230808

Item of Analysis	Specification	Results
Assay	99%-101%	99.6%
Appearance	Light yellowish crystalline powder	Conforms
Odor	Characteristic	Characteristic
Taste	Characteristic	Characteristic
Melting Point	60.0 ~62.00°C	60.0-61.2°C
Particle Size	100% through 60 mesh	Conforms
Loss on Drying	W0.20%	0.1%
Residue on Ignition	W0.10%	0.03%
Specific Rotation	-1.00° ~+1.00°	Conforms
Limit of polymer content	W2.0%	<2.0%
Single Unknown Impurity	W0.10%	0.07%
Total Impurities	W0.50%	0.26%
Heavy Metals	W10ppm	<10ppm
Cyclohexane	W1000ppm	587ppm
Toluene	W30ppm	Conforms
Ethyl acetate	W250ppm	70ppm
Cyclohexane	W1000ppm	587ppm
Toluene	W30ppm	Conforms
Ethyl acetate	W250ppm	70ppm
Cyclohexane	W1000ppm	587ppm

Quality Assurance: Liang Yan

