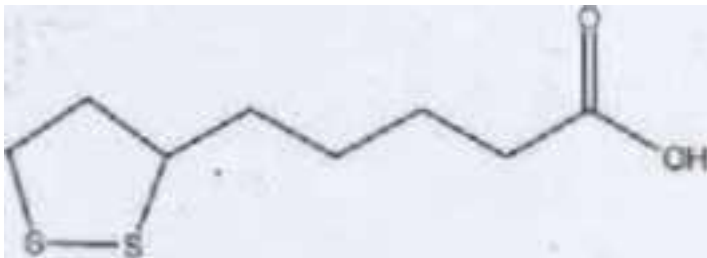


CERTIFICATE QEANALYSIS

Product Name: Alpha Lipoic Acid USP
Molecular Formula: C 8 H 1 4 O 2 S 2
Molecular Weight: 206.33
Structural Formular:
Batch No.: PRS20220125

Quantity: 8000kgs



MAN.Date: Jan. 25,2022
EXP.Date: Jan. 24,2024

	SPECIFICATIONS	RESULTS	Method
Appearance	Slightly yellow crystal powder	Conforms	Organoleptic
Identification	Meets the requirements	Conforms	HPLC
Melting Point	60-62℃	61"	USP
Specific rotation	-1.0° to +1.0*	0°	USP
Loss on drying	0.20% max	0.03%	CSP
Residue on Ignition	0.10% max	0.01%	LSP
Heavy Metals	10ppm max	<10DPIII	LSP
Lead	3ppm max	<3ppm	USP
Cadmium	1ppm max	<1ppm	LSP
Mercury	0.1 ppm max	<0.1 ppm	LSP
Chromatographic purity _____			
Single Impurity	0.10% max	0.01%	HPLC
Total Impurities	2.0% max	0.02%	HPLC
Limit of polymer content	Conforms	Conforms	TLC
Residual Solvent By GC			
Cyclohexane	3880ppm max	560ppm	GC
Ethyl Acetate	5000ppm mux	40ppm	GC
Total plate counts	1000 CFU/g max	<10 CFU/g	USP
Moulds and Yeasts	10U CFU/g max	<10CFU/g	USP
Lcoli/Salmonella	Absence/g	Not Detectable	USP
Staphvlococcus uurcus	Ahsence/g	Not Detectable	USP
Particle Size	100% through 40 mesh	Conforms	USP
Loose Bulk Density		0.40g/ml	USP
Assay	99% ~ 101%	99.2%	HPLC
Conclusion	Conformed USP43		

Quality Assurance Officer: Zhigang Li

Analyst: Ping Chen

