



武汉福鑫化工有限公司

Wuhan Fortuna Chemical Co.,Ltd

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CERTIFICATE OF ANALYSIS

Product: alpha-Lipoic acid

Lot No.: 160415

Mfg. date: Apr., 15, 2016

Quantity: 325kg

Exp. date: Apr., 14, 2019

Items	Specifications	Results
Appearance	Light yellowish crystalline powder	Conforms
Melting Point	60.0~62.00°C	60~61.80°C
Heavy Metals	≤10ppm	<10ppm
Loss on drying	≤0.20%	0.03%
Residue on ignition	≤0.10%	0.05%
Specific rotation	-1.00° ~ +1.00°	Conforms
Limit of polymer content	≤2.0%	<2.0%
Related Substance (HPLC)	6,8-Epitrithiolic Acid ≤0.10%	0.02%
	Single unknown impurity ≤0.10%	0.06%
	Total Impurities ≤0.50%	0.10%
Residual Solvents (GC)	Cyclohexane ≤1000ppm	700ppm
	Toluene ≤30ppm	≤20ppm
	Ethyl acetate ≤250ppm	Undetected
	Total Aerobic count ≤1000 cfu/g	<100 cfu/g
	Molds and yeasts ≤100 cfu/g	<10 cfu/g
	E.coil: Not detected	Undetected
	Salmonella: Not detected	Undetected
Assay	99.0%~101.0%	99.32%
Conclusion	The product conforms to USP35 Specifications.	

QC: Luo Xiaofeng

Tester: AT02

Re-tester: AT03