WUHU TIANCI CHEMICAL CO., LTD

Address: No. 4, 2277, No. 8 Xiangtai Road, Guandou Street, Wuhu Area, China Pilot Free Trade Zone Website:www.tcchems.com

SPECIFICATION

Thioctic acid (Alpha Lipoic Acid)

Item	Specification
Assay	99.0%~ 101.0%
Description	Slightly yellow crystal powder
Identification	IR-Spectroscopy
	Liquid chromatography
Melting point	60.0~62.0℃
Loss on drying	0.2% max
Residue on Ignition	0.1% max
Specific rotation	-1.0° to +1.0°
Related substances Single Impurity Total Impurities	≤0.10% ≤2.0%
Limit of polymer content （TLC）	Conform
Loose bulk density	0.39g/ml
Residual Solvents Cyclohexane Ethyl Acetate	 ≤3880ppm ≤500ppm
Particle size	100% through 40 mesh
Heavy metals Cadmium Arsenic Lead Mercury	≤10ppm ≤1ppm ≤1ppm ≤3ppm ≤0.1ppm
Microbe. Test: Total aerobes Count Yeast & Mold E.Coli Salmonella Staphylococcus Aureus	 1000CFU/g max 100CFU/g max Absence/g Absence/g Absence/g
Conclusion	Meet the standard of USP2021