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SPECIFICATION SHEET

Alpha Lipoic Acid 98.5%

Product Name	Alpha Lipoic Acid	**CAS No.**	1077-28-7
Molecular Formula	C8H14O2S2	**Molecular Weight**	206.32

Test Item	Specification	Test Method
Appearance	Slightly yellow crystalline powder	Visual
Odor & Taste	Characteristic	Organoleptic
Identification	Corresponding with RS	IR & HPLC
Assay (on dried basis)	98.5% - 101.0%	HPLC
Melting Range	60.0°C - 62.0°C	USP<741>
Specific Rotation	-1.0° ~ +1.0°	USP<781>
Particle Size	NLT 90% through 40 mesh	USP<786>
Loss on Drying	≤0.5%	USP<731>
Residue on Ignition	≤0.2%	USP<281>
Individual Impurity	≤0.3%	HPLC
Total Impurities	≤2.0%	HPLC
Residual Solvents	Meets USP<467>	USP<467>
Lead (Pb)	≤0.5 ppm	ICP-MS
Arsenic (As)	≤0.5 ppm	ICP-MS
Cadmium (Cd)	≤0.5 ppm	ICP-MS
Mercury (Hg)	≤0.1 ppm	ICP-MS
Standard Plate Count	≤1,000 cfu/g	USP<2021>
Total Yeast & Mold	≤100 cfu/g	USP<2021>
E. coli (in 10g)	Negative	USP<2022>
Salmonella (in 25g)	Negative	USP<2022>
S. aureus (in 10g)	Negative	USP<2022>

Storage: Store in tightly sealed and preferably full containers in cool, dry and ventilated area.

Shelf Life: 24 months under above conditions, and kept in its unopened original packaging.

Prepared by: Mia Yu Approved by: Charlie Wang Date: Oct. 23, 2026