

Quality Specification of Alpha Lipoic Acid

Product: **(dl)-Alpha Lipoic Acid (USP)**

CAS Number: 1077-28-7

Quality Standard: USP

Item	Specification
Appearance	Yellowish crystalline Powder
Identification (HPLC)	Positive
Assay (by HPLC, USP method)	99.0% ~ 101.0%
Melting point (B.P)	60.0 ~-62.0°C
Solubility (1N NaOH)	Clear and pale yellow
Chloride	≤0.07%
Loss on Drying	0.2% max
Residue on Ignition	≤0.10%
Heavy Metals	≤ 10 ppm
Specific optical rotation	-1 ~ +1.0°C
Mesh Size	80 % through 80 Mesh
Single impurity	≤0.10%
6.8-Epitrithulctannic Acid	≤0.10%
Total impurity	≤0.50%
Polymers (By TCL)	≤2.00%
Total aerobes counts	≤ 1000 cfu/g
Moulds and yeasts	≤ 100 cfu/g
Salmonella	Negative
E. Coli	Negative
Staphylococcus Aureate	Negative

Storage: Store in dry place and keep away from direct light and heat.

Note: The product is tested in accordance with USP quality standards.

An actual batch product's quality meets or is better than the specification requirements.