



SPECIFICATION SHEET

α – Lipoic Acid

TEST	SPECIFICATION	TEST METHOD
Appearance	Light yellow to yellow crystal or crystalline powder	Visual test
Particle size	Through 40 mesh	Sieve test
α – Lipoic acid content	$\geq 98.0\%$	HPLC
Melting point	59~63°C	JSFA*
Arsenic (As ₂ O ₂)	≤ 2 ppm	JSFA
Heavy metals	≤ 20 ppm	JSFA
Related substance	6,8 – Epitrithiooctanoic Acid	HPLC
	α - Lipoic acid polymer	Sedimentation
Moisture	$\leq 0.5\%$	Food sanitation inspection guideline
Residue on ignition	$\leq 0.10\%$	JSFA
Residual solvent		
① Cyclohexane	Not detected (≤ 1 ppm)	① GCMS
② Ethyl acetate	Not detected (≤ 1 ppm)	② GCMS
③ Toluene	Not detected (≤ 1 ppm)	③ GCMS
④ Acetone	Not detected (≤ 1 ppm)	④ GCMS
⑤ n-Hexane	Not detected (≤ 1 ppm)	⑤ GCMS
⑥ Dichloromethane	Not detected (≤ 1 ppm)	⑥ GCMS
⑦ MTBE	Not detected (≤ 1 ppm)	⑦ GCMS
Total Plate Count	$\leq 10^3$ cfu/g	Standard agar plate
Coliforms	Negative	BGLB

*JSFA : Japanese Standards of Food Additives

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