

CERTIFICATE OF ANALYSIS

Product Name	L-Citrulline DL-Malate	Batch Number	010058250511
Specification	2:1	Manufacture Date	May.11,2025
CAS Number	54940-97-5	Best Used Before	May.10,2027

Items	Specifications	Results
Appearance	White crystals or crystalline powder	Qualified
Assay	≥98.5%	99.43%
Specific optical rotation $[a]_D^{20}$	+17.5°±1.0°	+18.11°
Loss on drying	≤0.30%	0.13%
Residue on ignition	≤0.1%	0.05%
Sulfate(SO ₄)	≤0.02%	<0.02%
Chloride(as Cl)	≤0.05%	<0.05%
Iron(as Fe)	≤10ppm	<10ppm
Lead	≤1ppm	<1ppm
Arsenic(AS ₂ O ₃)	≤1ppm	<1ppm
Cadmium	≤1ppm	<1ppm
Mercury	≤0.1ppm	<0.1ppm
L-Citrulline	62.5%~74.2%	66.57%
DL-Malate	25.8%~37.5%	32.86%
Yeast and Moulds	≤100cfu/g	Conforms
Total plate count	≤1,000cfu/g	Conforms
E.coil	Absence/g	Conforms
Salmonella	Absence/10g	Conforms
S.aureus	Negative	Negative

Conclusion: Qualified.

Net weight: 25.0kgs/Drum

Gross weight: 27.5Kgs±0.5kg/Drum

24 months under 30°C in a well-closed container and away from moisture, light, oxygen.

Packed in paper drum or carton with two plastic bags inside.