



CERTIFICATE OF ANALYSIS

Product Name	R-Alpha Lipoic Acid	Manufacture Date	March 31, 2025
Batch Number	3S1-2503016	Test Date	March 31, 2025
Batch Quantity	500kgs	Expire Date	March 30, 2026

Item	Specification	Result
Physical & Chemical Control		
Appearance	Light Yellow to Yellow Crystalline Powder	Conforms
Odor & Taste	Characteristic	Conforms
Identification	HPLC or FTIR	Conforms
Assay	98.5% ~ 101.5%	98.6%
Loss on Drying	≤ 0.5%	0.1%
Specific Rotation	+118 ~ +126°	+119°
Residue on Ignition	≤ 0.1%	< 0.1%
Residual Solvents (Acetone)	≤ 5000ppm	Not Detected
Residual Solvents (Ethanol)	≤ 5000ppm	3ppm
Residual Solvents (Cyclohexane)	≤ 3880ppm	735ppm
Residual Solvents (Toluene)	≤ 890ppm	413ppm
Single Impurity	≤ 0.2%	0.13%
Total Impurities	≤ 1.0%	0.21%
Heavy Metals		
Total Heavy Metals	≤ 10 ppm	Conforms
Lead	≤ 1.0 ppm	Conforms
Arsenic	≤ 2.0 ppm	Conforms
Cadmium	≤ 1.0 ppm	Conforms
Mercury	≤ 0.1 ppm	Conforms
Microbiology Control		
Total Plate Count	≤1,000 cfu/g	<10cfu/g
Total Molds & Yeasts	≤100 cfu/g	<10cfu/g
E.Coli	Negative/g	Conforms
Salmonella	Negative/10g	Conforms
Total Coliforms	≤10 cfu/g	Conforms
General Status	Non - GMO, Allergen Free, Non-Irradiation.	
Packaging&Storage	Packed in paper-drums and two plastic-bags inside, 25kg/Drum. Keep in cool & dry place. Stay away from strong light and heat.	
Conclusion	Qualified	

