

## CERTIFICATE OF ANALYSIS

Product Name	R-(+)- Lipoic Acid Sodium Salt	Batch No	PY-RLAS20210311
Quantity	100KG	Analysis Date	Mar.14,2021
Mfg. Date	Mar.11,2021	Exp. Date	Mar.10,2023
Package	25kg/Drum	Standard	Enterprise Standard

No.	Item	Specification	Result
1.	Appearance	Off-white to light yellow powder	Complies
2.	Melting Point	230°C~250.0°C	Complies
3.	Solubility(H <sub>2</sub> O)	Soluble in water	Complies
4.	Specific Rotation	+80° ~ +95°	+94.4°
5.	Loss on Drying	≤3.0%	0.7%
6.	Heavy Metals	≤10ppm	Complies
7.	Total Plate Count	≤1,000cfu/g	<10cfu/g
8.	Molds & Yeasts	≤100cfu/g	<10cfu/g
9.	E.Coil	Negative	Negative
10.	Salmonella	Negative	Negative
11.	Particle Size	100% through 20 mesh 80% through 80 mesh	Complies Complies
12.	Assay(R-Alpha Lipoic Acid)	≥80%(External Standard)	85.6%
13.	Assay(R-(+)Lipoic Acid Sodium)	≥99%(Area Normalization)	99.9%
14.	Conclusion	Conform to the Enterprise Standard.	

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