

CERTIFICATE OF ANALYSIS

Product Name	L-Citrulline L-Malat (1:1)	Batch No	PY-SA20200602
Quantity	20,000KG	Analysis Date	Jun.05,2020
Mfg. Date	Jun.02,2020	Exp. Date	Jun.01,2022
Package	25KG/ Bag	Standard	In-house Standard

No.	Item	Specification	Result
1.	Appearance	White or crystalline powder	Complies
2.	Specific Rotation	+17°~ +19°	+18.2°
3.	Chloride(Cl)	≤0.05%	≤0.05%
4.	Loss on Drying	≤0.3%	0.26%
5.	Residue on Ignition	≤0.1%	0.03%
6.	L-Citrulline	44.1~49.9%	49.52%
7.	L-Malate	45.6~50.5%	49.65%
8.	Heavy Metals	≤10ppm	Complies
9.	Pb	≤3ppm	Complies
10.	Cd	≤1ppm	Complies
11.	Hg	≤0.1ppm	Complies
12.	Other Impurities	≤0.05%	Complies
13.	Total Impurities	≤0.20%	0.04%
14.	Assay(on dried basis)	≥ 98.0%	99.2%
15.	Conclusion	Passed test according to the In-house Standard.	

Analyst: xuli

QC: lixiaochen