



CERTIFICATE OF ANALYSIS

Product	L-Theanine		
Batch No.	210407	Batch Quantity	500KG
Manufacture Date	2021/04/07	Expiry Date	2023/04/06
Items & Result			
Item	Spec.		Result
Assay	98.0%~102.0%		99.11% (HPLC)
Physical control			
Appearance	White crystalline Power		Conforms
Solubility(1.0g/20ml H2O)	Clear Colorless		Conforms
Specific rotation (a)D20(C=1,H2O)	+7.7to+8.5Degree		+8.00Degree
Particle size	100% Through 80 mesh		Conforms
Loss on drying	NMT0.5%		0.28%
Residue on ignition	NMT0.2%		0.05%
PH	5.0-6.0		5.09
Chloride(C1)	≤0.02%		Conforms
Melting point	202-215℃		203-203.5℃
Chemical Control			
Heavy metal	≤10ppm		<10ppm
Cd	≤0.5ppm		<0.5ppm
Pb	≤0.5ppm		<0.5ppm
As	≤1ppm		<1ppm
Hg	≤0.1ppm		<0.1ppm
Microbiological			
Total plate count	<1000cfu/g		Conforms
Mould & Yeast	≤100cfu/g		Conforms
Salmonella	Negative		Negative
Escherichia Coli	Negative		Negative
Conclusion: : Conform to In-house Standard.			
Storage: Cool & dry place. Keep away from strong light and heat.			
Shelf Life	2 years when properly stored		
Analyst	马亮	Review	刘爱琴
		Supervisor of QC	李敏

