



CERTIFICATE OF ANALYSIS

Product Name:	L-Glutathione	Manufacture Date:	Feb.15,2022
Batch Number:	LYPH220215	Certificate Date:	Feb.17,2022
Batch Quantity:	338Kg	Expiration Date:	Feb.14,2024

ITEM	SPEC	RESULT	
Appearance	White or almost white crystalline powder	White crystalline powder	
Optical rotation	-15.5° -17.5°	-16.11°	
Appearance of solution	Freely soluble in water, very slightly soluble in ethanol and in methylene chloride	Complied	
Chlorides	≤200ppm	Complied	
Sulfates	≤300ppm	Complied	
Ammonium	≤200ppm	Complied	
Iron	≤10ppm	Complied	
Arsenic	≤1ppm	Complied	
Heavy metals	≤10ppm	Complied	
Cadmium (Cd)	≤1ppm	Complied	
Lead (Pb)	≤3ppm	Complied	
Mercury (Hg)	≤1ppm	Complied	
Sulfated ash	≤0.1%	0.04%	
Loss on drying	≤0.5%	0.375%	
Bulk density	≥0. 2g/ml	0.5256g/ml	
Tapped density	≥0. 4g/ml	0.7758g/ml	
Total plate count	≤1000cfu/g	Complied	
Yeast and mold count	≤100cfu/g	Complied	
Salmonella	Negative	Complied	
Related Substances	Total	≤2.0%	1.29%
	GSSG	≤1.5%	0.39%
Assay	98.0%-101.0%	98.07%	
Conclusion	Complies with Enterprise Standard.		

Quality Assurance Officer: 董文华

Corrector: 李丽

Analyst: 贺强

