



山东金城生物药业有限公司

SHANDONG JINCHENG BIO-PHARMACEUTICAL CO., LTD.

ZICHUAN ECONOMIC DEVELOPMENT ZONE, ZIBO CITY, SHANDONG PROVINCE, CHINA

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CERTIFICATE OF ANALYSIS

Product Name		L-GLUTATHIONE REDUCED	Batch No.	B210864
Quantity		200KG	Packing	25KG/DRUM
Date of Manufacture		AUG.02, 2021	Expiry Date	AUG.01,2024
Inspection Standard		Enterprise Standard Nutraceuticals Grade		
Test Items		Specification	Result	
Description		A white crystalline powder	A white crystalline powder	
Identification IR		Similar with the Reference Spectrum	Complies	
Optical Rotation		-15.5°~-17.5°	-16.6°	
Clarity and color of solution		Clear and colourless	Clear and colourless	
Heavy Metals		Not more than 10ppm	Complies	
Arsenic		Not more than 1ppm	Complies	
Sulphates		Not more than 300ppm	Complies	
Ammonium		Not more than 200ppm	Complies	
Iron		Not more than 10ppm	Complies	
Cadmium		Not more than 1ppm	Complies	
Lead		Not more than 3ppm	Complies	
Mercury		Not more than 1ppm	Complies	
Related Substances	Total	Not more than 2.0%	0.6%	
	GSSG	Not more than 1.5%	0.4%	
Loss on Drying		Not more than 0.5%	0.3%	
Residue on Ignition		Not more than 0.1%	0.02%	
Assay		98.0% to 101.0%	99.1%	
Microbiology	Total plate count	≤1000cfu/g	Complies	
	Yeast and mold count	≤100cfu/g	Complies	
	Total coli forms	≤100cfu/g	Complies	
	E. coli	Absent/10g	Complies	
	S. aureus	Absent/10g	Complies	
	Salmonella	Absent/10g	Complies	
Conclusion		Complies with Enterprise Standard		

QC DIRECTOR: LI HUILI

CHECKER: CHEN RONG

ANALYST: GAO GUIYAN

non-GMO, non-irradiation, non-BSE/TSE

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杨修亮