



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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杨怀亮