



Certificate of Analysis

Product Name:	L-Glutathione Reduced	CAS No.:	70-18-8
Grade:	Food Grade	Specification:	/
Batch Number:	244-24073101	Manufacture Date:	July 31, 2024
Representative Qty.:	800kg	Expiry Date:	July 30, 2026

ITEM		SPECIFICATION	RESULT	STANDARD REFERENCED
Physical	Appearance	White crystalline particles	Complies	Visual
	Loss on drying	≤0.5%	0.05%	2g/105°C/5hrs
	Residue on ignition	≤0.1%	0.08%	2g/800°C/5hrs
	Bulk density	0.2000-0.7000g/ml	0.6754g/ml	W/V
	Tapped density	0.4000-0.9000g/ml	0.8255g/ml	W/V
	Identification	Positive	Complies	Enterprise Standards
	Particle size	≥90% pass 20mesh	97.83%	Sieve
		≥20% pass 40mesh	33.69%	
		≥10% pass 60mesh	11.98%	
	Clarity and color of solution	Clear And Colourless	Complies	Enterprise Standards
Identification IR	Similar with the reference spectrum	Complies	Enterprise Standards	
Optical Rotation	-15.5°~-17.5°	-17.0°	Enterprise Standards	
Chemical	Heavy metals	≤10ppm	Complies	Colorimetric method
	Arsenic(As)	≤1ppm	Complies	AFS
	Lead(Pb)	≤2ppm	Complies	AFS
	Cadmium(Cd)	≤0.3ppm	Complies	AFS
	Mercury(Hg)	≤0.2ppm	Complies	AFS
	Ammonium	≤200ppm	Complies	GC
	Sulphates	≤300ppm	Complies	GC
	Chlorides	≤200ppm	Complies	GC
Related Substances	Total impurities	≤2.0%	0.50%	Enterprise Standards
	GSSG	≤1.5%	0.26%	Enterprise Standards
Assay	L-Glutathione Reduced	≥98.0%	99.15%	Enterprise Standards
Microbial	Total Plate Count	≤1000CFU/g	<10CFU/g	GB 4789.2
	Mould	≤100CFU/g	<10CFU/g	GB 4789.15
	Yeast	≤100CFU/g	<10CFU/g	GB 4789.15
	Coliforms	≤0.92MPN/g	Negative	GB 4789.3 MPN counting method



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	Salmonella	Negative	Negative	GB 4789.4
	Staphylococcus Aureus	Negative	Negative	GB 4789.10
Else	Packing	Pack in paper-drums and two food grade poly bags inside. Net weight: 25kg/drum		
	Storage condition	Sealed, Kept in a shady & dry place		
	Shelf life	Two years when properly stored.		

Tested by: 

