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CERTIFICATE OF ANALYSIS

Product Name	L-Glutathione		
CAS No.	70-18-8		
Batch Number	20240428	Manufacture Date	20240428
Report Date	20240428	Expiry Date	20260427

Test Items	Specifications	Results	Test Methods	
Appearance	White or almost white crystalline powder	White crystalline	Visual	
Identification IR	Conforms to the Reference Spectrum	Conforms to the Reference Spectrum	USP41	
Optical rotation	-15.5° to -17.5°	-16.15°	USP41	
Appearance of solution	Freely soluble in water, very slightly soluble in ethanol and in methylene chloride	Complied	Visual	
Chlorides	Not more than 200 ppm	Complied	USP41	
Sulfates	Not more than 300 ppm	Complied	USP41	
Ammonium	Not more than 200 ppm	Complied	USP41	
Iron	Not more than 10 ppm	Complied	USP41	
Arsenic	Not more than 1 ppm	Complied	USP41	
Heavy metals	Not more than 10 ppm	Complied	USP41	
Cadmium (Cd)	Not more than 1 ppm	Complied	USP41	
Lead (Pb)	Not more than 3 ppm	Complied	USP41	
Mercury (Hg)	Not more than 1 ppm	Complied	USP41	
Sulfated ash	Not more than 0.1%	0.062%	USP41	
Loss on drying	Not more than 0.5%	0.418%	USP41	
Bulk density	Not less than 0.2g/ml	0.5578g/ml	USP41	
Tapped density	Not less than 0.4g/ml	0.7822g/ml	USP41	
Total plate count	< 1000cfu/g	Complied	USP41	
Yeast and mold count	< 100cfu/g	Complied	USP41	
Salmonella	Negative	Complied	USP41	
Related Substances				
Total	Maximum 2.0%	1.66%		
GSSG	Maximum 1.5%	0.53%	USP41	
Assay	98.0% to 101.0%	98 06%	acil Ric	
			OGU BIOTEC	

Storage: Store in tight, light-resistant containers, avoid exposure to direct sunlight, nice are and excessive

Shelf Life: 24 months if store under the conditions above and stay in original packaging.