



昕新生物
New Things Biotech

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CERTIFICATE OF ANALYSIS

Product Name	L-Glutathione Reduced		
CAS	70-18-8	Formula	C ₁₀ H ₁₇ N ₃ O ₆ S
Batch	NT25100401	Manufacture Date	2025-10-04
Test Date	2025-10-05	Expiry Date	2027-10-03

Item	Specification	Result	Method
Description	White or almost white crystalline powder	White powder	Visual
Identification IR	Conforms to the Reference Spectrum	Conforms to the Reference Spectrum	USP43
Optical Rotation	-15.5° to -17.5°	-15.86°	USP43
State of solution	Freely soluble in water, very slightly soluble in ethanol and in methylene chloride	Complies	Visual
Chlorides	<200.0ppm	Complies	USP 43
Sulfates	<300.0ppm	Complies	USP 43
Ammonium	<200.0ppm	Complies	USP 43
Iron	<10.0ppm	Complies	USP 43
Arsenic	<2.0ppm	Complies	USP 43
Total Heavy Metals	<10.0ppm	Complies	In-house
Cadmium(Cd)	<1.0ppm	Complies	USP43
Lead (Pb)	<3.0ppm	Complies	USP43
Mercury(Hg)	<1.0ppm	Complies	USP43
Residue on ignition	<0.1ppm	0.048%	USP43
Loss on drying	<0.5%	0.325%	USP43
Bulk Density	>0.2g/ml	0.4931g/ml	In-house
Tapped Density	>0.4g/ml	0.7461g/ml	In-house
Total Plate Count	≤1000cfu/g	Complies	USP43
Yeast and Mould	≤100cfu/g	Complies	USP43
Salmonella	Negative/10g	Complies	USP43

Related compounds	Total	≤2.0%	1.07%	USP43
	GSSG	≤1.5%	0.38%	USP43
Assay		98.0%-101.0%	98.26%	
Conclusion		Complies with Enterprise Standard.		
Storage Conditions		Seal tightly and store in a cool place below 30°C。		

Analyzed by: Li Sha

Approved by: Qi Wang



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