

CERTIFICATE OF ANALYSIS

Product Name: Batch Quantity: Mfg Date:		L-Glutathione Reduced			
		500kg	Batch Number:	230702 Jul.2.2025	
		Jul.2.2023	Exp Date:		
Analysis Item		Specification	Result	Analytical Method reference	
Appearance		White or almost whit crystalline powderr	powder	Visual	
Identification IR		Conforms to the Reference Spectrum	Reference Spectrum	USP43	
Appearance of solution		Freely soluble in wate very slightly soluble i ethanol and in methylen chloride	n Complias	Visual	
Assay%		98.0 to 101.0	98.2	USP43	
Related	Total	Maximum 2.0%	1.45%	USP43	
compounds	GSSG	Maximum 1.5%	0.62%	USP43	
Bulk Density g/ml		≥0.20	0.3575	USP43	
Tapped Density g/ml		≥0.40	0.6801	USP43	
Total impurities %		≤2.0	0.5	UPS43	
L-glutathione oxidized %		≤1.5	0.2	UPS43	
Loss on drying %		≤0.5	0.251	UPS43	
Residue on Ignition %		≤0.1	<0.1	UPS43	
S.O.R		-15.5 ° ~-17.5 °	-16.87 °	UPS43	
Infrared		Positive	Positive	UPS43	
Ammonium ppm		≤200	<200	UPS43	
Chloride ppm		≤200	<200	UPS43	
Sulfate ppm		≤300	<300	UPS43	
Iron ppm		≤10	<10	UPS43	
Heavy metals ppm		≤10	<10	UPS43	
Arsenic ppm		≤2.0	<2.0	UPS43	
Cadmium ppm		≤1.0	<1.0	UPS43	
Lead ppm		≤3.0	<3.0	UPS43	
Mercury ppm		≤1.0	<1.0	UPS43	
Total Plate count cfu/g		≤1000	<10	Conformed	
Molds and Yeast cfu/g		≤100	<10	Conformed	
Coliforms cfu/g		≤30	<10	Conformed	
E.Coli		Negative/10g	Negative	Conformed	
Staphylococcus Aureus		Negative/10g	Negative	Conformed	
Salmonella		Negative/10g	Negative	Conformed	

	The product is contained in a Low-density polyethylene bag(food grade).			
Packaging	The inner bag is contained in cardboard drum,20kg per drum.			
Storage	Store in cool & dry place . Do not freeze. Keep away from strong light and heat.			
Shelf life	2 years when properly stored.			

Quality Assurance: Lia