

Shanghai Sunflower Pharmachem Co., Ltd.

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Product name	L-Glutathione Reduced	Batch no.	B221118
Quantity	100 kg	Packing	25 kg/drum
MFG date	Nov.18, 2022	Exp date	Nov.17, 2025
Inspection standard	USP 38		
Items	Specification	Results	
Description	A white crystalline powder	A white crystalline powder	
Assay	98.0%~101%	98.8%	
Optical rotation (25mg/ml)	-15.0°~ -17.5°	-16.7°	
Ammonium	Not more than 200 ppm	45 ppm	
Arsenic	Not more than 2 ppm	0.2 ppm	
Chloride	Not more than 200 ppm	35 ppm	
sulfate	Not more than 300 ppm	55 ppm	
Heavy metals	Not more than 10 ppm	2 ppm	
Iron	Not more than 10 ppm	3 ppm	
Residue on ignition	Not more than 0.1%	0.028%	
Total impurities	Not more than 2.0%	0.4%	
GSSG	Not more than 1.5%	0.2%	
Color of solution	Clear and colorless	Clear and colorless	
Loss on drying	Not more than 0.5%	0.10%	
Bacterial Endotoxin	Not more than 0.10 EU/mg	0.02 EU/mg	
Conclusion	Comply with USP38 standard		

Analyst : Liu Jing Checker: Chen Rong QC Principal: Gao Qiao