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Certificate of Analysis

Product Name	L-Glutathione Reduced	Molecular Formula	C ₁₀ H ₁₇ N ₃ O ₆ S
Batch No.	FZMRG170724	Test sample qty.	25g
Produce date	2017.07.24	Expiry date	2019.07.23
Reference standard	USP38 Standard		
ITEM	STANDARD		RESULT
Assay	98.0%-101.0%		98.40%
Characters	Appearance	White or almost white, crystalline powder	Qualified
	Identification	freely soluble in water, very slightly soluble in ethanol	Qualified
Identification	Specific optical rotation	-15.5° to -17.5°	-16.8°
	IR	similar with the reference	Qualified
Chlorides	Maximum 200ppm		Qualified
Sulphates	Maximum 300ppm		Qualified
Ammonium	Maximum 200ppm		Qualified
Heavy metals	Maximum 10ppm		Qualified
Iron	Maximum 4ppm		Qualified
Plumbum (Pb)	Maximum 3ppm		Qualified
Arsenic (As)	Maximum 1ppm		Qualified
Mercury (Hg)	Maximum 1ppm		Qualified
Cadmium (Cd)	Maximum 1ppm		Qualified
Residue on Ignition	Maximum 0.1%		0.07%
PH	2.8-3.1		2.9
Loss on drying	Maximum 0.5%		0.35%
Related substances	Total	Maximum 2%	1.10%
	GSSG	Maximum 1.5%	0.70%
Total plate count	Maximum 1000CFU/g		Qualified
Molds and yeasts	Maximum 1000CFU/g		Qualified
Total coli forms	Maximum 100CFU/g		Qualified
E. coli /25g	Negative		Qualified
Staphylococcus aureus/25g	Negative		Qualified
Salmonella/25g	Negative		Qualified
Conclusion :	This product conforms with USP38 standard.		
Storage:	Store in sealed containers at cool & dry place. Protect from light, moisture and pest infestation.		
Shelf life:	2 years if properly stored		
Operator: Kai Guo	Approval: Qiang Liu		

