

Hallochem Group

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Chongqing Waycome Pharmaceutical Co.,Ltd.

CERTIFICATE OF ANALYSIS

Product name	L-Glutathione Reduced (COSMETIC grade)	Batch No.	GTR20250202
Manuf. Date	2025-02-12	Expiry Date	2030-02-11
Batch Quantity	700KG	Test Standard	Factory standard

ANALYSIS ITEM	SPECIFICATION	RESULT
Characteristics	White crystals or crystalline powder	White crystalline powder
Identification	Corresponding to Reference Spectrum	Complies
Specific rotation	$-15.5^{\circ} \sim -17.5^{\circ}$	-16.9°
Bulk density	$\geq 0.2\text{g/ml}$	0.48g/ml
tightness	$\geq 0.4\text{g/ml}$	0.78g/ml
Clarity and color of solution	The solution is clear and colorless	Complies
Chloride	$\leq 200\text{ppm}$	Complies
Sulfate	$\leq 300\text{ppm}$	Complies
Ammonium	$\leq 200\text{ppm}$	Complies
Iron	$\leq 10\text{ppm}$	Complies
Arsenic	$\leq 10\text{ppm}$	Complies
lead	$\leq 2\text{ppm}$	Complies

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Hg	$\leq 0.2\text{ppm}$	Complies
Cadmium	$\leq 0.3\text{ppm}$	Complies
Related substance	Total impurities : $\leq 2\%$	0.56%
	SSG $\leq 1.5\%$	0.23%
Heavy metals	$\leq 10\text{ppm}$	Complies
Loss on drying	$\leq 0.50\%$	0.2%
Residue on ignition	$\leq 0.10\%$	0.03%
Assay	98.0%~101.0%	99.80%

Conclusion: Complies with the factory standard

Quality Manager:

宋家豪

Rechecker:

易洪成

Analyst:

刘琪



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