

## 深圳市古特新生生物科技有限公司 SHENZHEN GSH Bio-Technology Co., Ltd.

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## **CERTIFICATE OF ANALYSIS**

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Production name		L-Glutathione reduced	CAS No.	70-18-8
Batch No.		GSH-21100601	Formula	C <sub>10</sub> H <sub>17</sub> N <sub>3</sub> O <sub>6</sub> S
MFG. Date		Oct. 06, 2021	Quantity	300kg
Expiry Date		Oct. 05, 2023	Report Date	Oct. 13, 2021
Storage conditions		Keep container tightly closed in a cool, dry and well-ventilated place.		
Inspection Stan	dard	Enterprise Standard		
Test Items		Specifications	Results	Analytical method reference
Appearance		White or almost white crystalline powder	White crystalline powder	visual
Identification IR		Conforms to the Reference Spectrum	Conforms to the Reference Spectrum	USP39
Optical rotation		-15.5°to −17.5°	-16°	USP39
Appearance of solution		Freely soluble in water, very slightly soluble in ethanol and in methylene chloride	Complied	visual
Chlorides		Not more than 200 ppm	Complied	USP39
Sulfates		Not more than 300 ppm	Complied	USP39
Ammonium		Not more than 200 ppm	Complied	USP39
Iron		Not more than 10 ppm	Complied	USP39
Arsenic		Not more than 1 ppm	Complied	USP39
Heavy metals		Not more than 10 ppm	Complied	USP39
Cadmium (Cd)		Not more than 1 ppm	Complied	USP39
Lead (Pb)		Not more than 3 ppm	Complied	USP39
Mercury (Hg)		Not more than 1 ppm	Complied	USP39
Sulfated ash		Not more than 0.1%	0.05%	USP39
Loss on drying		Not more than 0.5%	0.386%	USP39
Bulk density		Not less than 0.2g/ml	0.4614g/ml	USP39
Tapped density		Not less than 0.4g/ml	0.6926g/ml	USP39
Total plate count		≤ 1000cfu/g	Complied	USP39
Yeast and mold count		≤ 100cfu/g	Complied	USP39
Salmonella		Negative	Complied	USP39
Related Substances	Total	Maximum 2.0%	1.03%	USP39
	GSSG	Maximum 1.5%	0.42%	USP39
Assay		98.0% to 101.0%	98.47%	USP39 # 4 4 4 4
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Analyst:Tangyuan

Auditor: Wangyuanyuan

Chief of QC: Zhaohonglai

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