



### Certificate of Analysis

Product Name:	Glutathione Reduced	Manufacture Date:	Dec. 13, 2022
Batch Number:	PB0221213	Analysis Date:	Dec. 13, 2022
Batch Quantity:	990Kg	Expiration Date:	Dec. 12, 2024

Test	Specifications	Result
Assay by HPLC:	98.0%~101.0%	99.08%
Appearance:	Almost white or yellow powder	Complies
Solubility:	Freely soluble in water, very slightly soluble in ethanol (96 per cent) and in methylene chloride.	Complies
Specific optical rotation:	-15.5° to -17.5°	-16.0°
Mesh size:	100% pass 80mesh	Complies
Loss on drying :	≤0.5%	0.39%
Residue on ignition:	≤0.1%	0.06%
Sulphated ash:	≤0.1%	0.05%
Chlorides:	≤200 ppm	Complies
Ammonium:	≤200 ppm	Complies
Iron:	≤10 ppm	Complies
Heavy metals :	≤10ppm	Complies
Microbiology:		
Total Plate Count:	<1000cfu/g	223cfu/g
Yeast & Mold:	<100cfu/g	37 cfu/g
E.Coli:	Negative	Complies
S. Aureus:	Negative	Complies
Salmonella:	Negative	Complies
Conclusion:	Conform with specification.	

Quality Assurance Officer:

Corredtor:

Analyst:



许明峰

方进武