Certificate of Analysis

NO:026-G24-TSX

Product Name	**Glutathione**		
CAS No.	70-18-8	**Manufacturing**	2026/08/28
Molecular Formula	$C_{10}H_{17}N_3O_6S$	**Report Date**	2026/09/03
Molecular Weight	307.3 g/mol	**Re-test Date**	2028/08/28
Appearance	white powder	**Storage conditions**	-20℃ ± 5℃, sealed and away from light
Renference Standard	Renference Ch.p	**Packing size**	1Kg/bag
Sequence	HOOC-CH(NH_2)-CH_2-CH_2-CO-NH-CH(CH_2SH)-CO-NH-CH_2-COOH		

TEST	SPECIFICATION	RESULT
Appearance	White or almost white crystalline powder or colourless crystals.	Conforms
Solubility	Freely soluble in water,very slightly soluble in ethanol (96 percent) and methylene chloride.	Conforms
Specific Optical Rotation	-15.5°to-17.5°	-16.7°
Transmittance	≥80.0%	92.2%
pH	2.5~3.5	2.8
Loss on drying	≤0.5%	0.4%
Residue on ignition	≤0.50%	0.07%
Heavy Metals(as Pb)	≤10ppm	<10ppm
Peptide Purity (By HPLC)	≥98.0%	98.7%

For research use only. Direct human application is prohibited.

Limit To Research And Submission Use
Not For Direct Human Application

Analyst: Warden Zhao QC Director: Melker Zhu Checker : Bowen Yang