

Glutathione Antioxidant tripeptide · RUO

PRODUCT	Glutathione	APPEARANCE	White crystal or crystalline powder
LOT / BATCH NO.	YS241201	MANUFACTURING DATE	2024-12-13
CAS NO.	70-18-8	RETEST DATE	2026-12-12
MOLECULAR FORMULA	C ₁₀ H ₁₇ N ₃ O ₆ S	STORAGE	Cool and dry place, protected from light, keep package airproofed when not in use. Please store 2-8°C for long term storage.
MOLECULAR WEIGHT	307.32 g/mol	REPORT DATE	2024-12-21

#	TEST	SPECIFICATION	RESULT
1	Appearance	White crystal or crystalline powder	Conforms
2	Identification	Similar with the reference spectrum	Conforms
3	Solubility	Freely soluble in water, very slightly soluble in ethanol and in methylene chloride	Conforms
4	Residue on Ignition	0.1%	0.1%
5	Assay	For drying products, not less than 98.0% C ₁₀ H ₁₇ N ₃ O ₆ S (HPLC)	98.5%
6	Chlorides	Not more than 200ppm	Conforms
7	Optical Rotation	-15.5o— -17.5o	-16.9o
8	Sulfates	Not more than 300ppm	Conforms
9	Ammonium	Not more than 200ppm	Conforms
10	Heavy metals	10ppm	Conforms
11	Iron	Not more than 10ppm	Conforms
12	Arsenic	Not more than 1ppm	Conforms
13	Lead	Not more than 2ppm	Conforms
14	Mercury	Not more than 0.2ppm	Conforms
15	Cadmium	Not more than 0.3ppm	Conforms
16	Loss on drying	0.5%	0.3%
17	Bulk density	Not less than 0.2g/ml	0.4g/ml
18	Tapped density	Not less than 0.4g/ml	0.8g/ml
19	Clarity and color of solution	Clear and colourless	Conforms
20	Microbiology	Total plate count100cfu/g Coliforms100cfu/g Yeast and mold count50cfu/g Salmonella absent S.aureus absent	Conforms
21	Related Substances	Total not more than 2.0% GSSG not more than 1.5%	1.2% 0.8% 0.06%



AUTHENTICITY VERIFICATION

NST-GLUT-YS241201-3AC54B

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Batch analytical data reviewed & released under NST Research Quality Control

NST Research

Quality Control Department · Date: 2024-12-21

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