

MZ Biolabs
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# Certificate of Analysis Glutathione 600mg

(2S)-2-amino-5-[[(2R)-1-(carboxymethylamino)-1-oxo-3-sulfanylpropan-2-yl]amino]-5-oxopentanoic acid

Compound : Glutathione Client : Tides Peptides

Lot number : 2025-09-12 <u>www.tidespeptides.com</u>

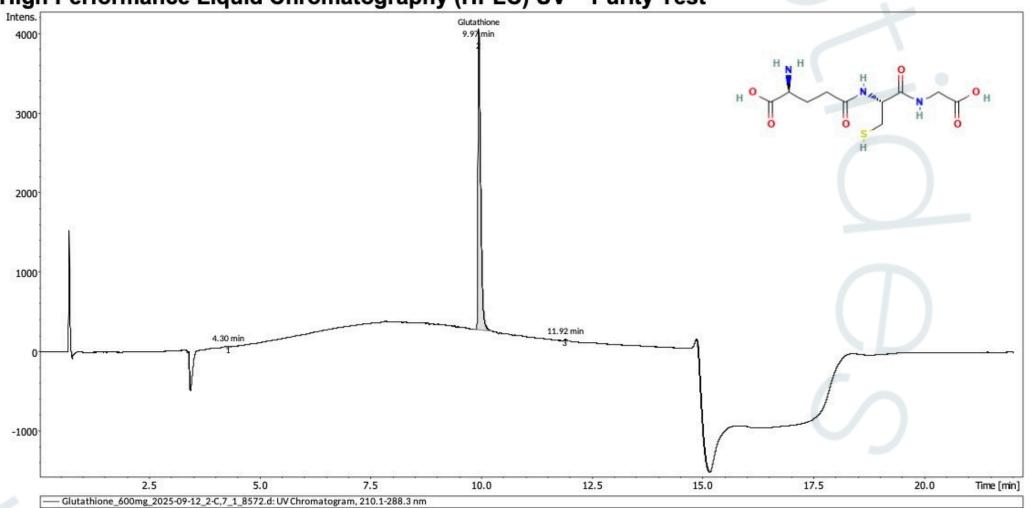
Analysis date : 2025-09-22 Purity % : 99.27%

Method : HPLC-UV-MS

PubChem CID: 124886

https://pubchem.ncbi.nlm.nih.gov/compound/124886

High Performance Liquid Chromatography (HPLC) UV - Purity Test



	Number of detected peaks: 3		<b>PEAK LIST</b>	
	%Area	Area	Time (min)	
	0.32	5.07E+01	4.30	1
Glutathione	99.27	1.57E+04	9.97	2
	0.41	6.52E+01	11.92	3



Analysis Performed by Ken Pendarvis, ChE Analytical Chemist MZ Biolabs contact@mzbiolabs.com

2025-09-29

Note: Injectable peptides may contain salts and sugars to aid in solubility and act as pH buffers. These are not normally detected using UV and are not considered impurities.



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#### Mass Spectrometry (MS) - Identity Test

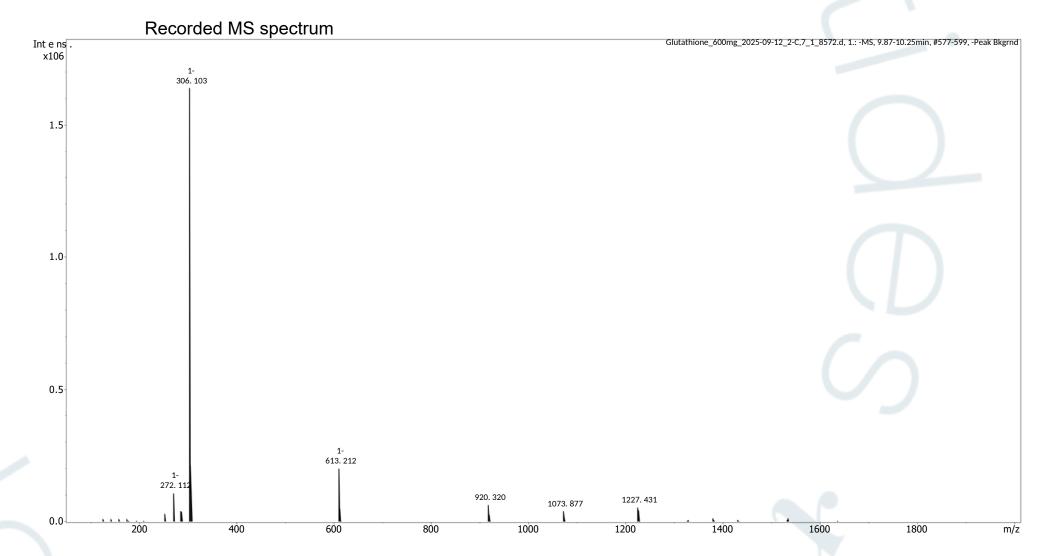
#### Identityconfirmed using HPLC-MS

Molecular weight calculated using monoisotopic m/z values from mass spectrum

Expected monoisotopic mass: 307.08 Da Measured monoisotopic mass: 307.10 Da

Molecular weight confirmed

Note: Monoisotopic m/z values are not easily seen in full spectrum view for larger molecules and peptides. The dominant isotopic peak (base peak) shown in the spectrum below can be used to approximate the average molecular weight frequently reported by vendors and databases as a secondary means of confirmation.





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### **CERTIFICATE OF ANALYSIS**

Product Name	L-Gluthathione Reduced	Batch Number	NCGR250622
Standard	In-house standard	Analysis Date	June. 22, 2025
Batch Quantity	60kg	Expiry date	June. 21, 2028

Items	Specifications	Results	
Appearance	A White crystalline powder	A White crystalline powder	
Melting point	183 ~ 187℃	187.0℃	
Idontification	Chemical: Positive reaction	Positive reaction	
Identification	Similar with the reference spectrum	Conforms	
Optical rotation	-15.5~-17.5°	-16.1°	
Appreance of solution	Clear and colorless	Clear and colorless	
Heavy metals	Not more than 10ppm	Conforms	
Arsenic	Not more than 1ppm	Conforms	
Ammonium(NH4)	Not more than 0.020%	Conforms	
Sulfate	Not more than 0.048%	Conforms	
Iron(Fe)	Not more than 10ppm	Conforms	
Loss on drying	Not more than 0.5%	0.38%	
Residue on ignition	Not more than 0.10%	0.09%	
Related substances	Total not more than 2.0%	1.19%	
	GSSG not more than 1.5%	0.55%	
Purity(HPLC)	Not less than 98.0%	98.6%	
Conclusion	Conforms with the In-house standard		

Note: this product is intended for research use only

Important: Stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated.