MZ Biolabs
2102 N Country Club Rd
Tucson, AZ 85716
contact@mzbiolabs.com
www.mzbiolabs.com

Certificate of Analysis

Semax 30mg

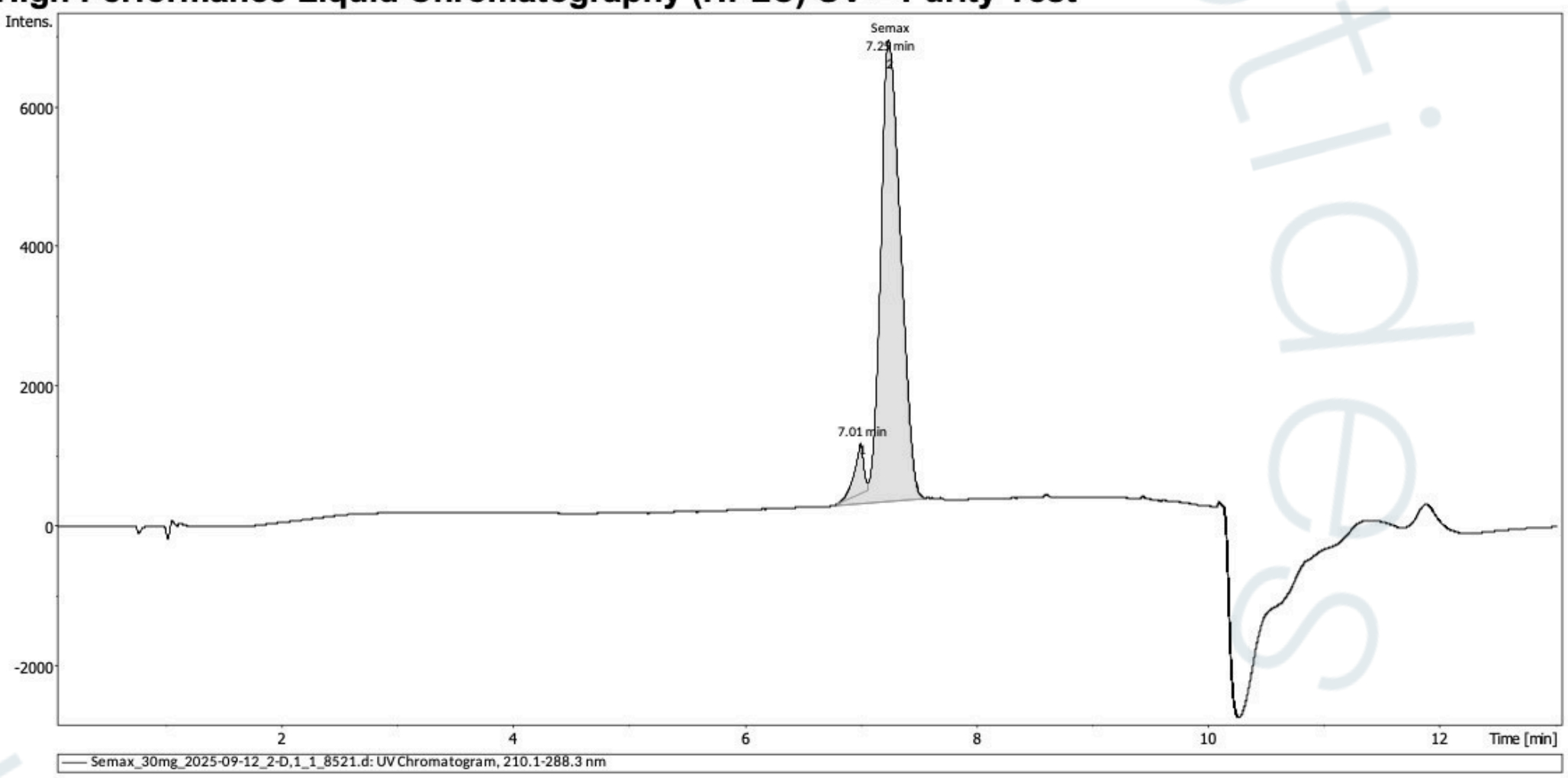
H-Met-Glu-His-Phe-Pro-Gly-Pro-OH

Compound : **Semax**
Lot number : **2025-09-12**
Analysis date : **2025-09-22**
Purity % : **95.52%**
Method : **HPLC-UV-MS**

Client : **Tides Peptides**
www.tidespeptides.com

PubChem CID: 122178
https://pubchem.ncbi.nlm.nih.gov/compound/122178

High Performance Liquid Chromatography (HPLC) UV – Purity Test



PEAK LIST	Number of detected peaks: 2			
	Time (min)	Area	%Area	
1	7.01	3.98E+03	4.48	
2	**7.25**	**8.47E+04**	**95.52**	**Semax**

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

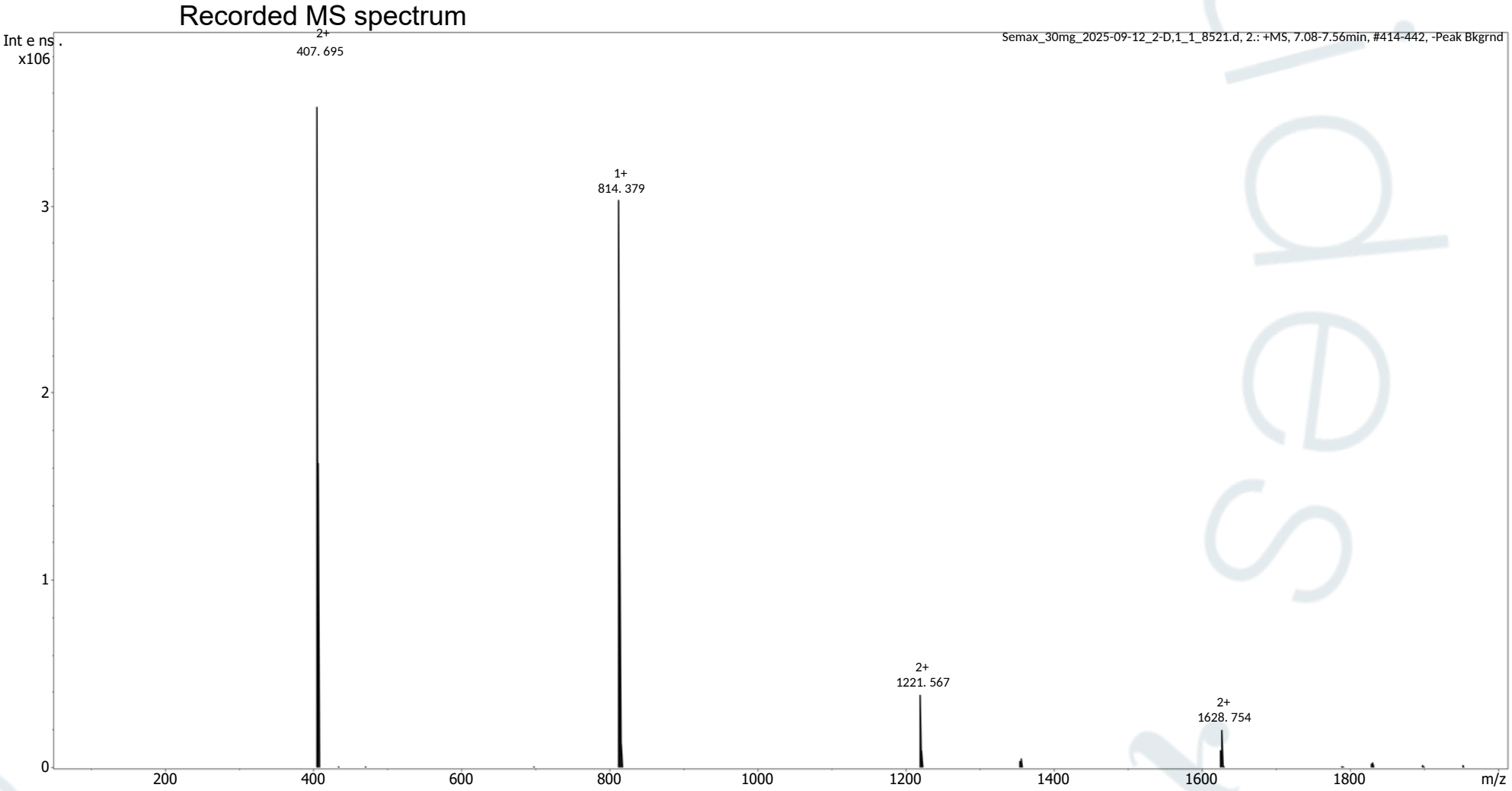
Identityconfirmed using HPLC-MS
Molecular weight calculated using monoisotopic m/z values from mass spectrum

Expected monoisotopic mass :	813.35	Da
Measured monoisotopic mass :	813.39	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.

Recorded MS spectrum



Analysis Performed by
Ken Pendarvis, ChE
Analytical Chemist
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2025-09-29

tides™
peptides

CERTIFICATE OF ANALYSIS

Product Name	SEMAX	CAS NO.	80714-61-0
Batch NO.	NCSEM250702	Molecular formula	C39H54N10O10S
Manufacture Date	July 2, 2025	Molecular weight	854.99
Sequence	Met-Glu-His-Phe-Pro-Gly-Pro		

TEST	SPECIFICATION	RESULTS
Appearance	White or almost white fluffy powder	Conforms
Identity by HPLC	The retention time of the main principal of the test Solution corresponds to that of the reference Solution, as obtained in the assay	Conforms
Solubility	≥30mg/ml(H2O)	Conforms
Purity(HPLC)	≥ 98%	99.1%
Acetic Acid	≤ 10.0%	5.4%
Trifluoroacetic acid	≤ 0.5%	Not detected
MS	Consistent	Consistent
Peptide Assay	80.0%~120.0%	93.0%
Conclusion	This product conforms to the Enterprise 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.