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

# Certificate of Analysis

## Semax 10mg

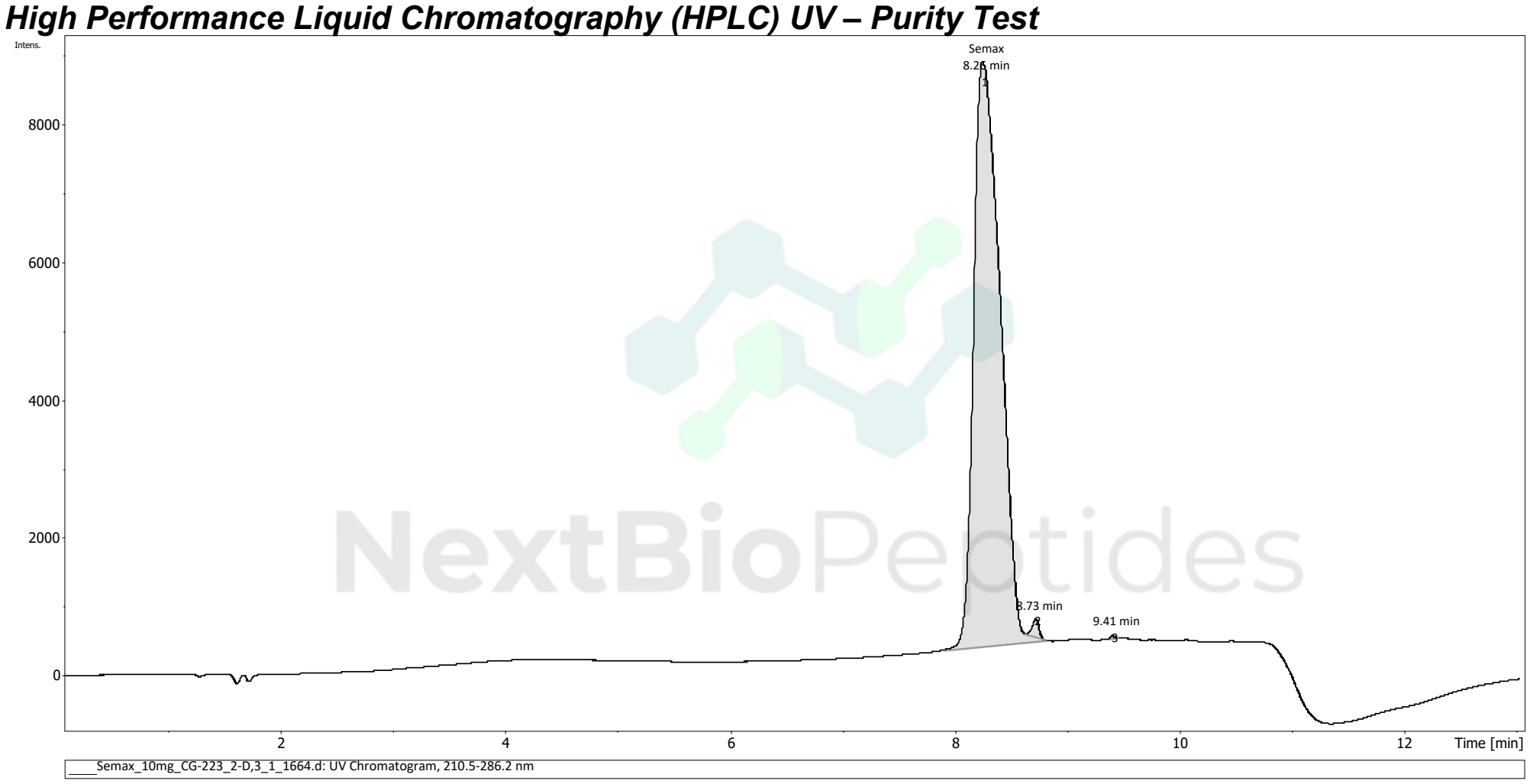
L-Methionyl-L-alpha-glutamylhistidyl-L-phenylalanyl-L-prolylglycyl-L-proline

***Compound*** ***: Semax***
***Lot number*** ***: CG-223***
***Analysis date*** ***: 2024-12-31***
***Purity %*** ***: 99.17%***
***Method*** ***: HPLC-UV-MS***

***Client :*** NextBioPeptides
nextbiopeptides.com

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

### *High Performance Liquid Chromatography (HPLC) UV – Purity Test*




NextBioPeptides

| PEAK LIST | Number of detected peaks: 3 | | | |
|---|---|---|---|---|
| | Time (min) | Area | %Area | |
| 1 | ***8.26*** | ***1.41E+03*** | ***99.17*** | ***Semax*** |
| 2 | 8.73 | 1.07E+01 | 0.75 | |
| 3 | 9.41 | 1.10E+01 | 0.08 | |

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

2025-01-08

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*

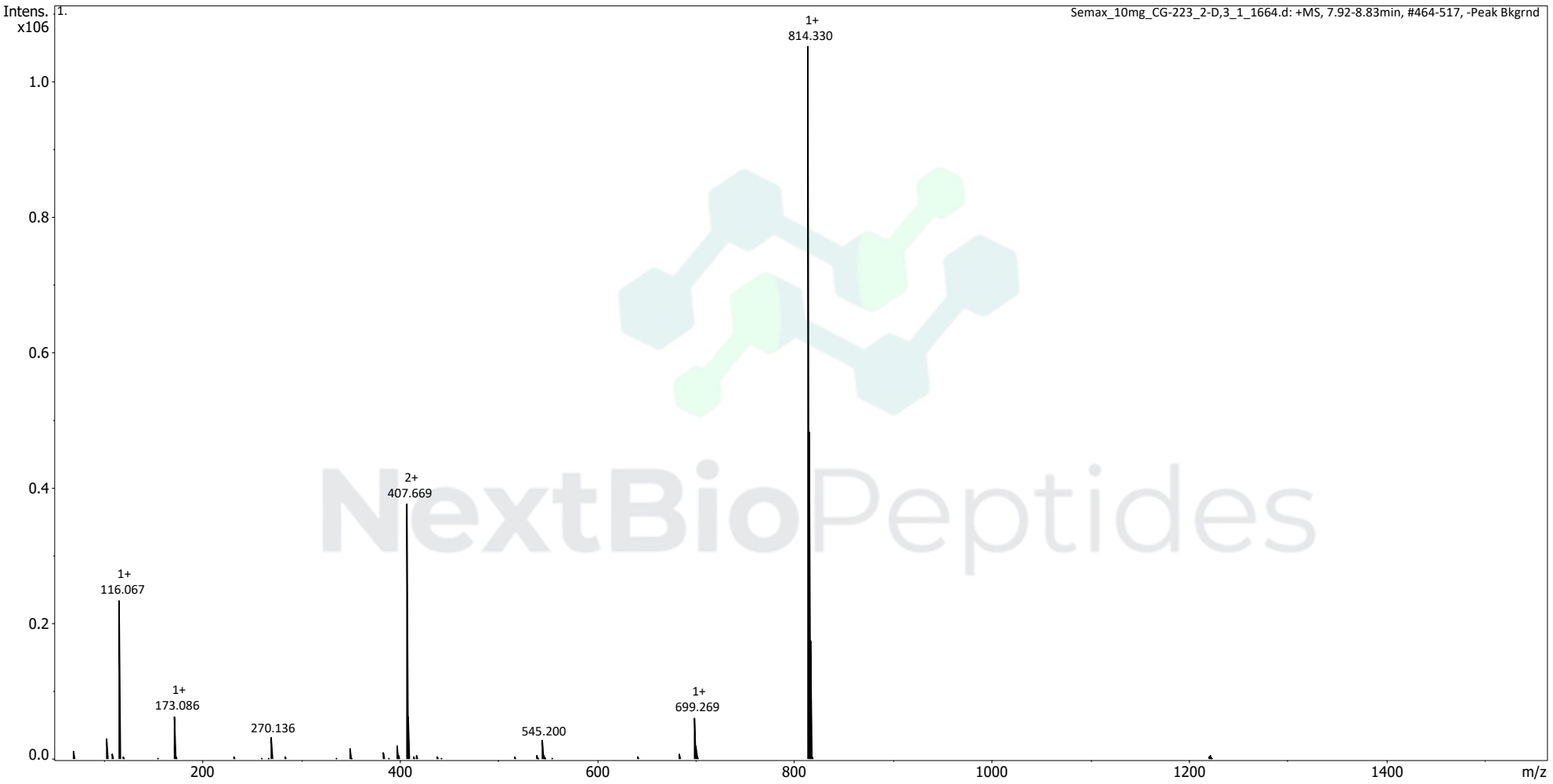
***Identity confirmed using HPLC-MS***
Molecular weight calculated using monoisotopic m/z values from mass spectrum

| | | |
|---|---|---|
| Expected monoisotopic mass : | 813.35 | Da |
| Measured monoisotopic mass : | 813.33 | 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
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