

# Certificate of Analysis

## Tirzepatide 10mg

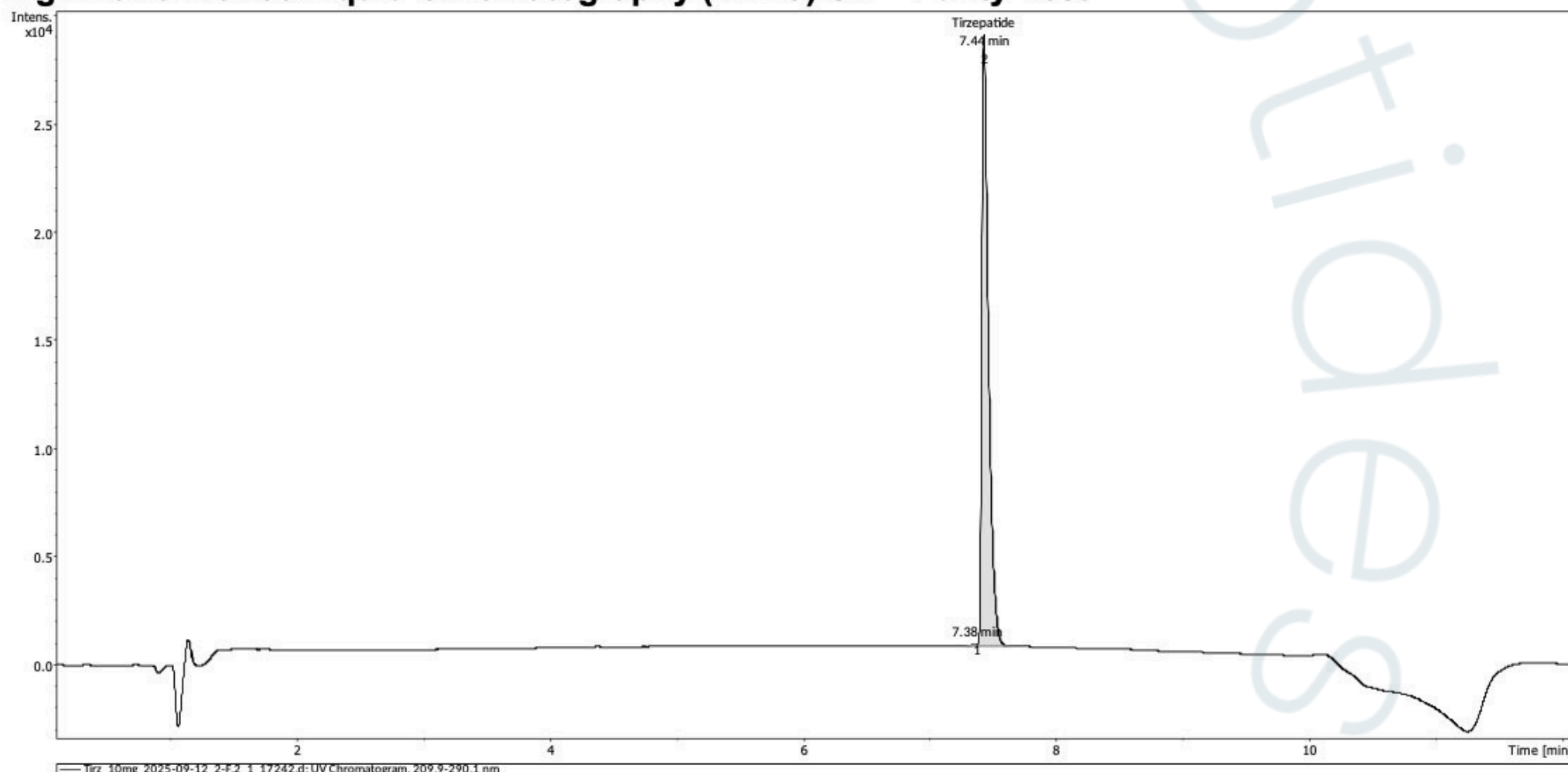
**Compound** : Tirzepatide  
**Lot number** : 2025-09-12  
**Analysis date** : 2025-09-22  
**Purity %** : 99.98%  
**Method** : HPLC-UV-MS

**Client** : Tides Peptides  
[www.tidespeptides.com](http://www.tidespeptides.com)

PubChem CID: 163285897

<https://pubchem.ncbi.nlm.nih.gov/compound/163285897>

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



PEAK LIST			
	Time (min)	Area	%Area
1	7.38	1.70E+01	0.02
2	7.44	1.03E+05	99.98

Number of detected peaks: 2

**Tirzepatide**



Analysis Performed by  
Ken Pendarvis, ChE  
Analytical Chemist  
MZ Biolabs  
[contact@mzbiolabs.com](mailto: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

### Identity confirmed using HPLC-MS

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

Expected monoisotopic mass : 4810.52 Da

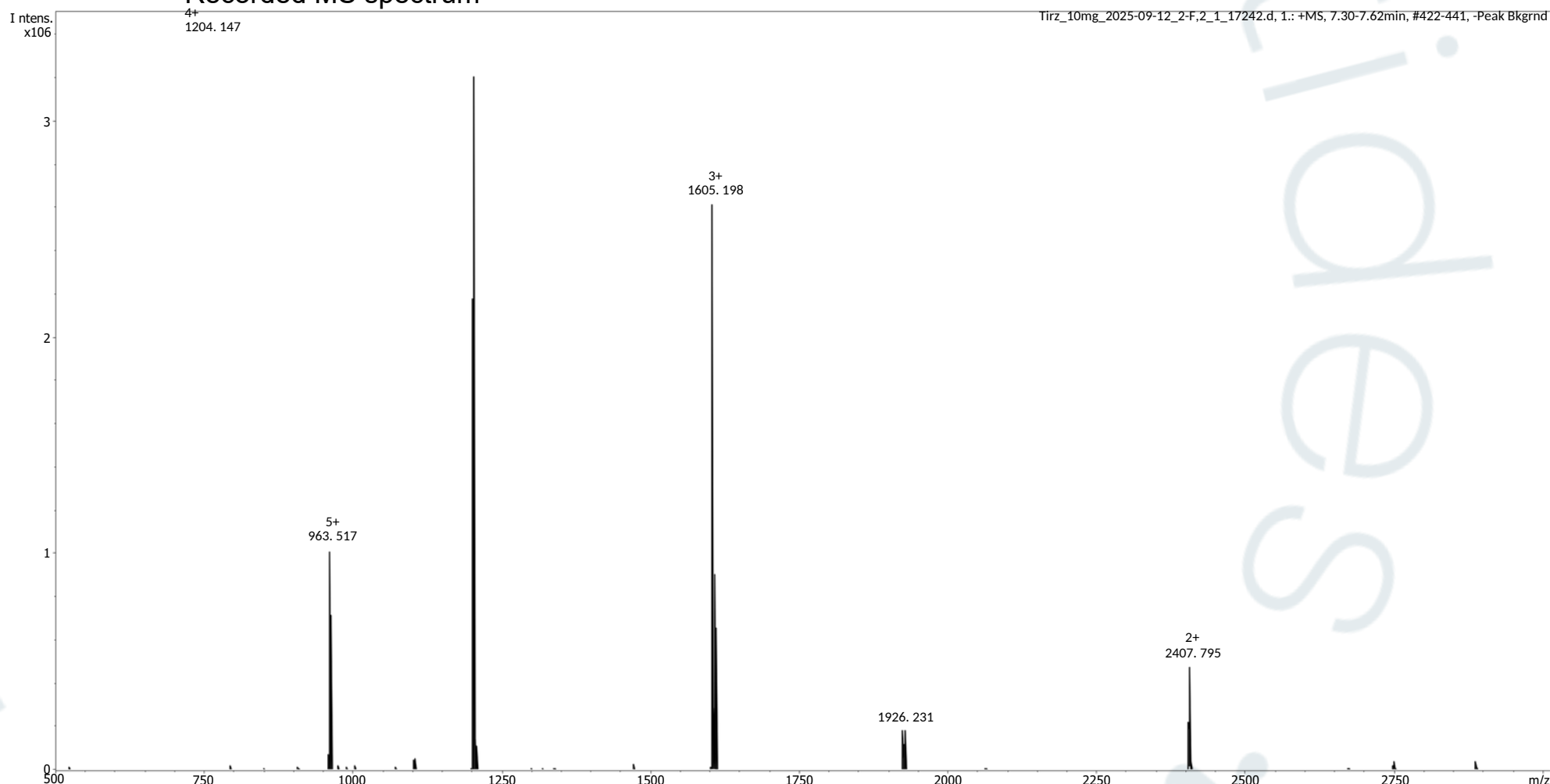
Measured monoisotopic mass : 4810.59 Da

### 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



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## CERTIFICATE OF ANALYSIS

Product Name	Tirzepatide	CAS NO.	2023788-19-2
Standard	Enterprise standard	Batch NO.	NCTR250627
Manufacture Date	June 27, 2025	Quantity	4500g
Sequence	Tyr-{Aib}-Glu-Gly-Thr-Phe-Thr-Ser-Asp-Tyr-Ser-Ile-{Aib}-Leu-Asp-Lys-Ile-Ala-Gln-{diacid-gamma-Glu-(AEEA)2-Lys}-Ala-Phe-Val-Gln-Trp-Leu-Ile-Ala -Gly-Gly-Pro-Ser-Ser-Gly-Ala-Pro-Pro-Pro-Ser-NH2		

TEST	SPECIFICATION	RESULTS
Appearance	White or off-white 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	Soluble in H2O	Conforms
Purity(HPLC)	≥98%	99.22%
Related substances	Maximumsingleimpurity≤1%	0.51%
	Totalimpurities≤2.0%.	0.44%
Water	≤ 5.0%	2.68%
Trifluoroacetate ion	≤ 0.25%	ND
pH	6.0~9.0	7.17
Sodium ion	≤ 5.0%	1.46%
Bacterial Endotoxin test	< 10EU/mg	Conforms
Chloride ion	<0.5%	N.D
Peptide Assay	≥ 90.0%	94.36%
Conclusion	This product conforms to 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.