

## Certificate of Analysis



<u>Analyte</u>	<u>Result</u>	<u>LOQ</u>	<u>Units</u>	<u>% of Label</u>	<u>Method</u>	<u>Date</u>	<u>CAS</u>
<b>Peptide Analysis</b>							
Chromatographic purity	>99.95	0.5	%		HPLC-UV/MS	1/3/2026	
Tirzepatide	28.6	0.5	mg	95.4	HPLC-UV-MS	1/3/2026	2023788-19-2
Tirzepatide	ID Confirmed				HPLC-UV-MS	1/3/2026	

The data presented are from the analysis of the sample shown and meet Krause Analytical internal quality assurance criteria unless otherwise flagged.

Methods shown reference current Krause Analytical SOPs

ND - Not detected LOQ - limit of quantification

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Respectfully submitted,

Mark C. Krause  
Laboratory Director

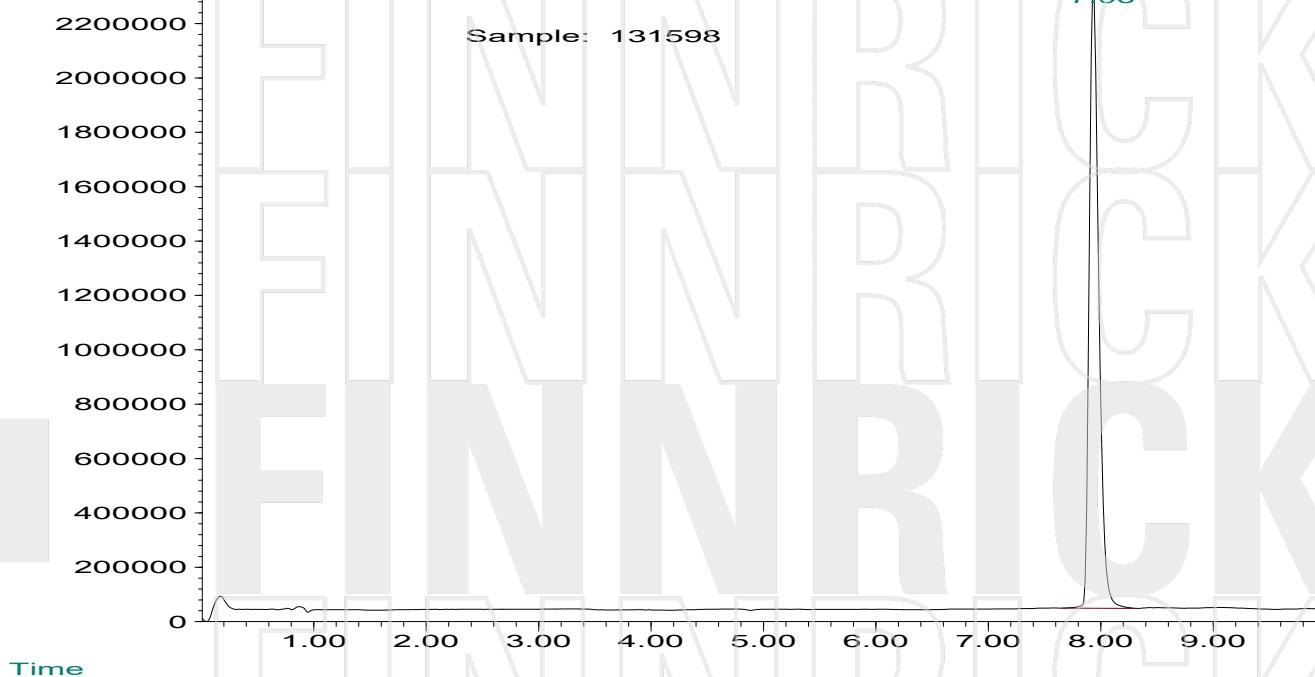
8127 Mesa Drive Suite B-206 Austin, TX 78759

## Chromatogram

Response\_

035-3501.D\IDAD1A (-,\*)

Sample: 131598

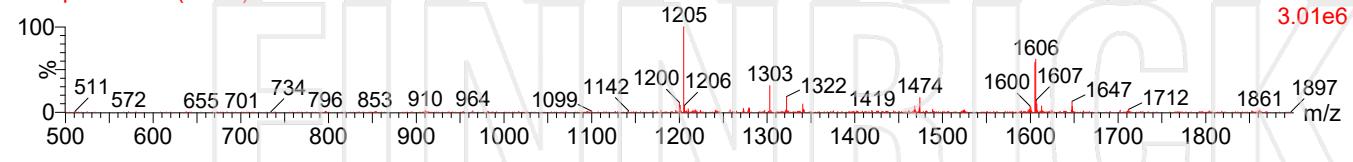


## Mass spectrum/Reference Spectrum

131598 471 (8.713)



Tirzepatide 462 (8.547)



**Krause Analytical, LLC 8127 Mesa Drive Suite B-206 Austin, TX 78759**

## Methods Summary

### Purity/Potency/Identification

### USP/NF 621

- 2 mL of purified water is added to the lyophilized powder in the vial, and the contents mixed to dissolve the lyophilized powder.
- An aliquot is taken from the vial and diluted to contain approximately 500 mg/L of the peptide.
- The diluted sample is analyzed by HPLC-UV-MS.
- The mass spectrum obtained is compared to an authentic standard of the peptide for identification.
- The total area of all of the peaks in the chromatogram is calculated, and the area of the peak of the peptide is divided by the total area to obtain the chromatographic purity value, reported in percent.
- The area of the peptide is compared to the area of the peptide peak in the known standard to obtain a concentration in the solution. This concentration is used to calculate the total mass of peptide in the vial, which is compared to the stated mass (label claim) and reported as both total mass in the vial and as a percent of the label claim.

### Endotoxins

### USP/NF 85

- 2 mL of purified water is added to the lyophilized powder in the vial, and the contents mixed to dissolve the lyophilized powder.
- An aliquot is taken from the vial and diluted in endotoxin-free water.
- The diluted sample is analyzed for endotoxins using the LAL method.

### Metals

### USP/NF 233

- 2 mL of purified water is added to the lyophilized powder in the vial, and the contents mixed to dissolve the lyophilized powder.
- An aliquot is taken from the vial and diluted in deionized water.
- The diluted aliquot is analyzed against known standards by ICP-MS