

Certificate of Analysis



Client:

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Amino Acids Sequence (Tirzepatide)

Tyr-Aib-Glu-Gly-Thr-Phe-Thr-Ser-Asp-Tyr-Ser-Ile-Aib-Leu-Asp-Lys-Ile-Ala-Gln-Lys-Ala-Phe-Val-Gln-Trp-Leu-Ile-Ala-Gly-Gly-Pro-Ser-Ser-Gly-Ala-Pro-Pro-Pro-Ser-NH₂

Sample Identification

Sample Name	Tirzepatide 45 mg	Batch Number	TIR4520-01	Date Published	3-MAR-2026
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Results for TIR4520-01 TIRZEPATIDE

Analysis of Peptide Identity, Content and Purity	ResultUnit	Uncertainty	Reporting Limit
Tirzepatide Assay <i>Peptide Screening</i>	45.12 mg	[± 0.23]	
Tirzepatide Identification by RT <i>Peptide Screening</i>	1.000	[± 0]	
Tirzepatide Identification by spectrum <i>Peptide Screening</i>	4814	[± 20]	
Tirzepatide Purity <i>Peptide Screening</i>	> 99.8 %	[± 0.4]	
Bioburden	ResultUnit	Uncertainty	Reporting Limit
Total Aerobic Microbial Count <i>USP <61> Plate Count Method</i>	Not detected CFU/g		>= 1000 △
Total Yeast and Mold Count <i>USP <61> Plate Count Method</i>	Not detected CFU/g		>= 100 △
Endotoxin Analysis	ResultUnit	Uncertainty	Reporting Limit
Bacterial Endotoxin <i>USP<85> Bacterial Endotoxin Chromogenic Test</i>	< 0.001 EU/mg		> 0.5 △
Heavy Metals	ResultUnit	Uncertainty	Reporting Limit



Quality Assurance

SIGNED CERTIFICATION

Analysis results relate only to the samples tested.

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Edwin Hoag

Edwin Hoag, MD, PhD

Inspecting QA/QC Manager · Cellgenic Laboratories



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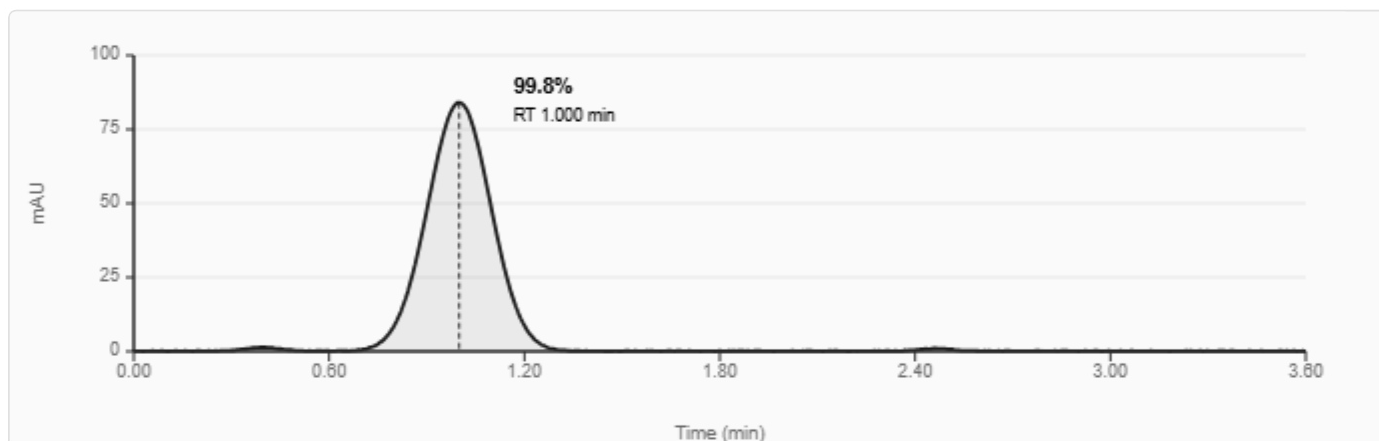
Analysis Dashboard

Tirzepatide

• Batch: TIR4520-01 • 3-MAR-2026

HPLC Chromatogram

HIGH PERFORMANCE LIQUID CHROMATOGRAPHY • PURITY ANALYSIS

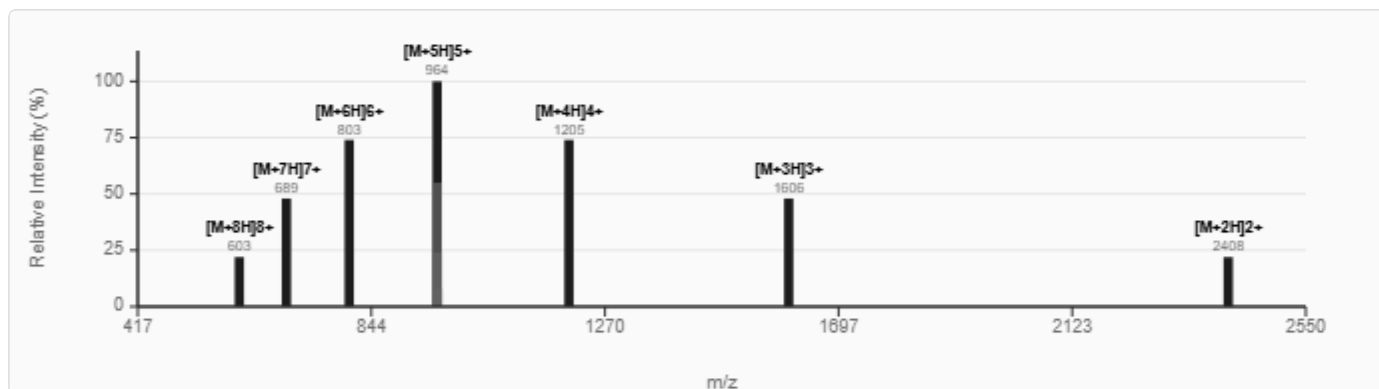


Column: C18, 250x4.6 mm, 5μm Mobile phase: H₂O/ACN + 0.1% TFA Detection: UV 220 nm

RT: 1.000 min Purity: > 99.8%

Mass Spectrum

ELECTROSPRAY IONIZATION MASS SPECTROMETRY • IDENTITY CONFIRMATION



Ionization: ESI+, positive mode Instrument: LC-MS/MS Observed: 4814 m/z Identity: Confirmed ✓