

Certificate of Analysis

Client:**Cellgenic****Datran Center 9100 S Dadeland Boulevard,****Suite 1500. Miami FL. 33156 United States.****Email: info@stemcellsgroup.com****Phone: +1 305 560 5337**

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 20 mg	Batch Number	TIR2020-01	Date Published	3-MAR-2026
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Results for TIR2020-01 TIRZEPATIDE

Analysis of Peptide Identity, Content and Purity	ResultUnit	Uncertainty	Reporting Limit
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Tirzepatide Assay <i>Peptide Screening</i>	20.06 mg	[± 0.10]	
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Tirzepatide Identification by RT <i>Peptide Screening</i>	1.002	[± 0]	
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Tirzepatide Identification by spectrum <i>Peptide Screening</i>	4818	[± 20]	
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Tirzepatide Purity <i>Peptide Screening</i>	> 99.8 %	[± 0.4]	
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Bioburden	ResultUnit	Uncertainty	Reporting Limit
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Total Aerobic Microbial Count <i>USP <61> Plate Count Method</i>	Not detected CFU/g		>= 1000 △
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Total Yeast and Mold Count <i>USP <61> Plate Count Method</i>	Not detected CFU/g		>= 100 △
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Endotoxin Analysis	ResultUnit	Uncertainty	Reporting Limit
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Bacterial Endotoxin <i>USP<85> Bacterial Endotoxin Chromogenic Test</i>	< 0.001 EU/mg		> 0.5 △
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Heavy Metals	ResultUnit	Uncertainty	Reporting Limit
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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



Datran Center · 9100 S Dadeland Boulevard, Suite 1500 · Miami, FL 33156 · United States
info@stemcellsgroup.com · +1 305 560 5337 · cellgenic.com

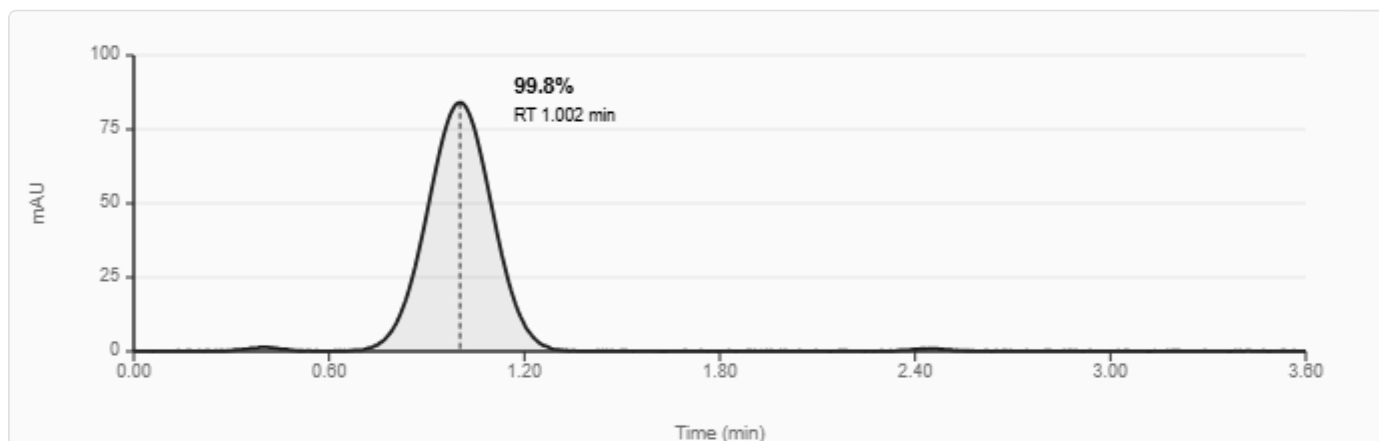
Analysis Dashboard

Tirzepatide

• Batch: TIR2020-01 • 3-MAR-2026

HPLC Chromatogram

HIGH PERFORMANCE LIQUID CHROMATOGRAPHY • PURITY ANALYSIS

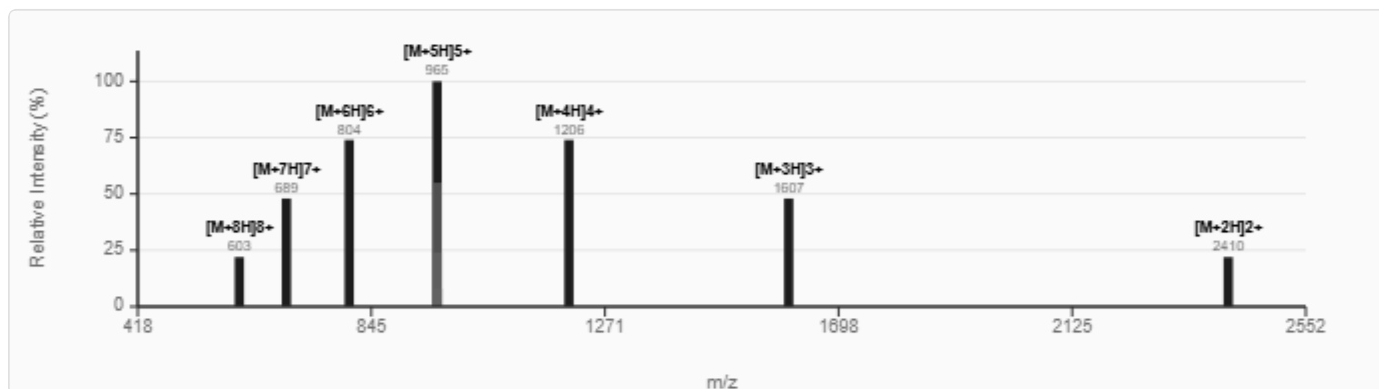


Column: C18, 250x4.6 mm, 5µm Mobile phase: H₂O/ACN + 0.1% TFA Detection: UV 220 nm

RT: 1.002 min Purity: > 99.8%

Mass Spectrum

ELECTROSPRAY IONIZATION MASS SPECTROMETRY • IDENTITY CONFIRMATION



Ionization: ESI+, positive mode Instrument: LC-MS/MS Observed: 4818 m/z Identity: Confirmed ✓