Synaptica Analytics

Independent Laboratory Analysis Report

OFFICIAL ANALYTICAL DOCUMENT

REPORT ID
SYN-2026-004867

Analysis Report

Official laboratory analysis summary for the submitted sample and associated quality-control review.

SAMPLE	RECEIVED DATE	ANALYSIS DATE	REPORT GENERATED
Tirzepatide	Apr 01, 2026	Apr 02, 2026	Apr 03, 2026

STRENGTH	60mg	MANUFACTURER	PepticoreAminos
BATCH NUMBER	PC-TZ60-0410F	LAB CODE	948-1
CLIENT	www.pepticoreaminos.net		

SAMPLE INFORMATION

Tirzepatide

60MG

FORM	White powder in a glass vial
SAMPLE SUBMISSION	Sample provided by customer
BATCH	PC-TZ60-0410F
CAP / CRIMP COLOR	trasparent /Copper
RECEIVED DATE	Apr 01, 2026



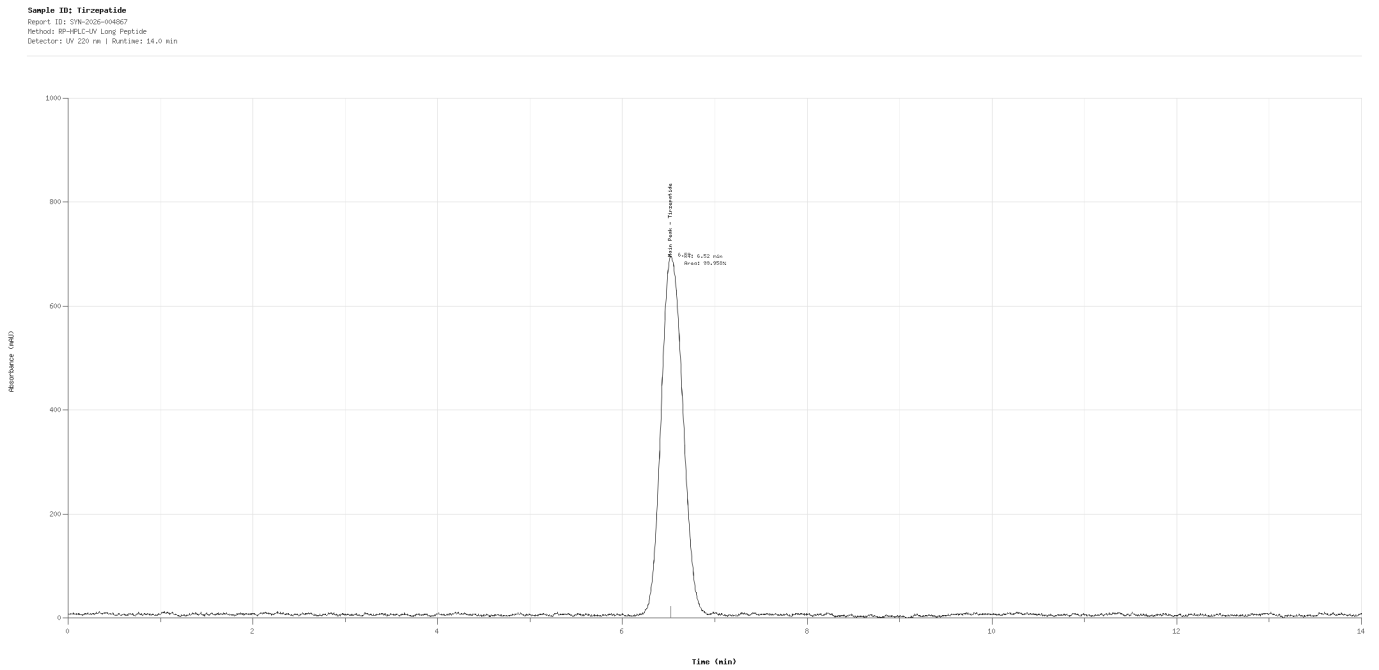
SAMPLE IMAGE

ANALYTICAL SUMMARY

IDENTITY	Tirzepatide
PURITY	99.958%
QUANTITY	62.30mg
BATCH	PC-TZ60-0410F
MANUFACTURER	PepticoreAminos

RP-HPLC-UV CHROMATOGRAM (220 NM)

Detection: UV 220 nm



METHOD

TIME	H2O + 0.1% TFA	ACN + 0.1% TFA
0min	90%	10%
2min	90%	10%
10min	8%	92%
12min	8%	92%

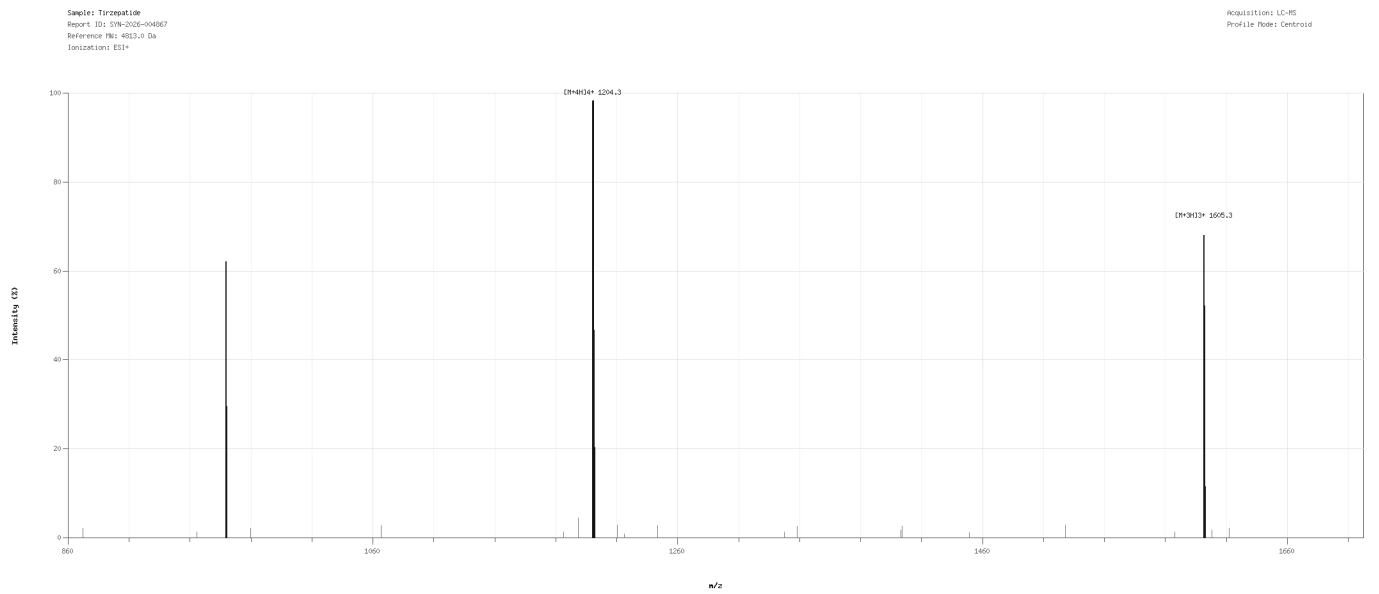
TECHNICAL NOTE

Gradient RP-HPLC-UV screening method with UV detection at 220 nm. Runtime 12.0 min.

COMMENTS

Analytical testing confirms that the sample conforms to the expected specifications. The purity profile is stable, with only minor related components detected within acceptable analytical limits.

LC-MS MASS SPECTRUM



Charge-state distribution and isotope clustering consistent with the analyzed sample.

ANALYSIS & METHODOLOGY

STANDARD PEPTIDE PURITY, MASS & ADDITIONAL TESTING

HPLC-UV: High-Performance Liquid Chromatography with Ultraviolet detection. Additional testing includes bioburden screening, endotoxin analysis and heavy metals assessment.

BIOBURDEN

TEST	RESULT	UNIT	REPORTING LIMIT
Total Aerobic Microbial Count USP <61>/Eur. Ph. 2.6.12. Plate Count Method	**Not detected**	**CFU/g**	**>= 1000**
Total Yeast and Mold Count USP <61>/Eur. Ph. 2.6.12. Plate Count Method	**Not detected**	**CFU/g**	**>= 100**

ENDOTOXIN ANALYSIS

TEST	RESULT	UNIT	REPORTING LIMIT
Bacterial Endotoxin USP<85>/ Eur. Ph. 2.6.14. Bacterial Endotoxin Chromogenic Test	**< 0.002**	**EU/mg**	**> 0.5**

HEAVY METALS

TEST	RESULT	UNIT	REPORTING LIMIT
Arsenic Elemental Impurities Screening	**Not detected**	**ppm**	**>= 1.5**
Cadmium Elemental Impurities Screening	**Not detected**	**ppm**	**>= 0.5**
Cobalt Elemental Impurities Screening	**Not detected**	**ppm**	**>= 25**
Lead Elemental Impurities Screening	**Not detected**	**ppm**	**>= 1.5**

TEST	RESULT	UNIT	REPORTING LIMIT
Nickel Elemental Impurities Screening	**Not detected**	**ppm**	**>= 25**
Quicksilver Elemental Impurities Screening	**Not detected**	**ppm**	**>= 1.5**
Vanadium Elemental Impurities Screening	**Not detected**	**ppm**	**>= 25**

TECHNICAL APPENDIX

This appendix documents the analytical methodology, instrumentation and acceptance criteria applied for the evaluation of the sample.

COMPOUND REFERENCE

PARAMETER	TIRZEPATIDE
PUBCHEM CID	166567236
CAS	2023788-19-2
MOLECULAR FORMULA	C225H348N48O68
MOLECULAR WEIGHT	4813.0 g/mol

METHOD SPECIFICATION

PARAMETER	LONG PEPTIDE EXTENDED RP-HPLC-UV METHOD
ANALYTICAL MODE	Extended gradient RP-HPLC-UV peptide purity screen
COLUMN	C18 peptide column, extended-gradient configuration
MOBILE PHASE A	Water + 0.1% TFA
MOBILE PHASE B	Acetonitrile + 0.1% TFA
FLOW RATE	0.7 mL/min
DETECTION	UV 220 nm
INJECTION VOLUME	10 uL
RUNTIME	14.0 min
SAMPLE DILUENT	Water/acetonitrile compatible diluent
SAMPLE PREPARATION	Diluted to method range and clarified before injection

INSTRUMENT PLATFORM

PARAMETER	HIGH-RESOLUTION UPLC/HPLC-UV PLATFORM
SYSTEM TYPE	High-resolution LC platform
DETECTOR	UV/VIS detector
ACQUISITION	Chromatographic acquisition and integration software
REVIEW MODE	Gradient profile review with peak integration

PARAMETER	HIGH-RESOLUTION UPLC/HPLC-UV PLATFORM
WORKFLOW NOTE	Used for long peptide and multi-component profile review

ANALYTICAL CRITERIA

PARAMETER	ACCEPTANCE FRAMEWORK	BASIS
IDENTITY	Retention-time and profile agreement with reference expectations	Chromatographic identity review
PURITY	NLT 98.0% unless a stricter report-specific specification is declared	Integrated RP-HPLC-UV purity profile
QUANTITY	Measured content reviewed against the declared sample strength	Report-level analytical summary
BIOBURDEN	Not detected or within stated reporting limits	Microbial screening table
ENDOTOXIN	Below stated reporting limit / internal screening threshold	Endotoxin analysis table
HEAVY METALS	Below individual reporting limits where screened	Elemental impurities screening table

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VERIFICATION

Verify this report through the official Synaptica Analytics verification page using the details below.
Verification URL synaptica-labs.com/verify-report/
Report ID SYN-2026-004867
Verification Key VK-PQZ3-2AHD

SCAN TO VERIFY

DIGITAL SIGNATURE



DIGITALLY SIGNED BY:
Martin Saar
Date: 2026.04.03 17:02:13 +02'00'
Director