

Analysis Report

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

SAMPLE Tirzepatide	RECEIVED DATE Jun 19, 2026	ANALYSIS DATE Jun 29, 2026	REPORT GENERATED Jun 30, 2026
STRENGTH	10mg	MANUFACTURER	PeptiCoreAminos
BATCH NUMBER	PC-TZ10-1107A	LAB CODE	987-2
CLIENT	www.peptiCoreAminos.net		

SAMPLE INFORMATION

Tirzepatide

10MG

FORM White lyophilized powder in a glass vial

SAMPLE SUBMISSION Sample provided by customer

BATCH PC-TZ10-1107A

CAP / CRIMP COLOR Yellow/Silver

RECEIVED DATE Jun 19, 2026



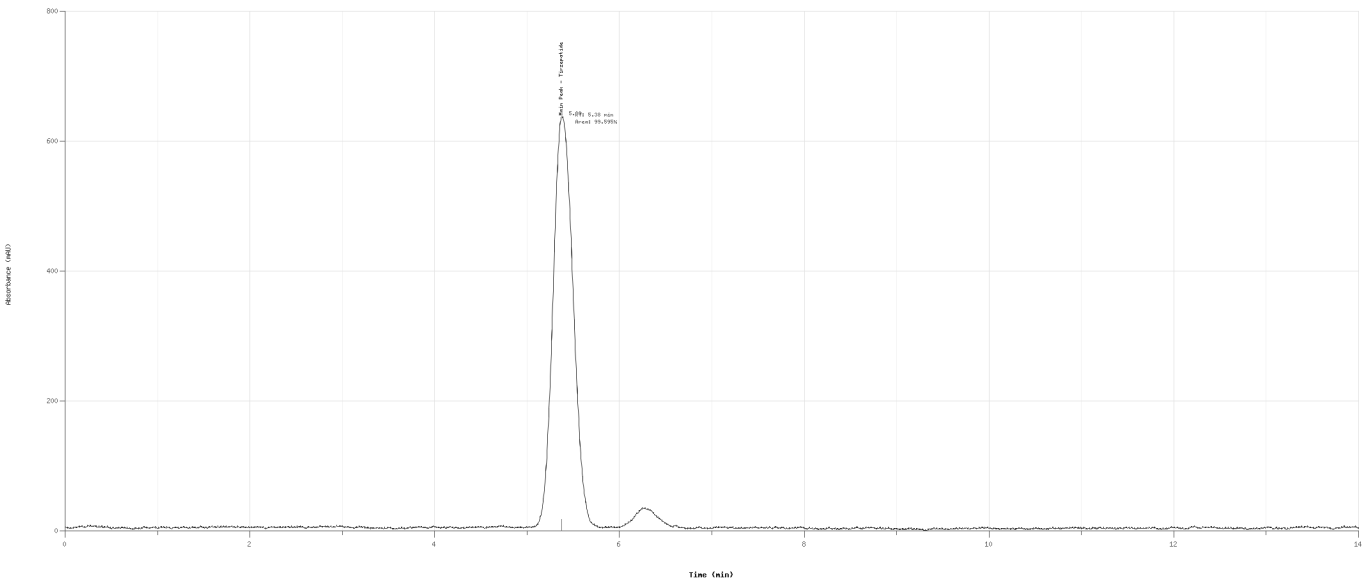
SAMPLE IMAGE

ANALYTICAL SUMMARY

IDENTITY	Tirzepatide
PURITY	99.595%
QUANTITY	11.02mg
BATCH	PC-TZ10-1107A
MANUFACTURER	PeptiCoreAminos

RP-HPLC-UV CHROMATOGRAM (220 NM)
Detection: UV 220 nm | Runtime: 14.0 min

Sample ID: Tirzepatide
Report ID: 519-2024-00011
Method: RP-HPLC-UV Long Peptide
Detector: UV 220 nm | Runtime: 14.0 min



METHOD

TIME	H2O + 0.1% TFA	ACN + 0.1% TFA
0min	90%	10%
2min	90%	10%
10min	8%	92%
12min	8%	92%
14min	8%	92%

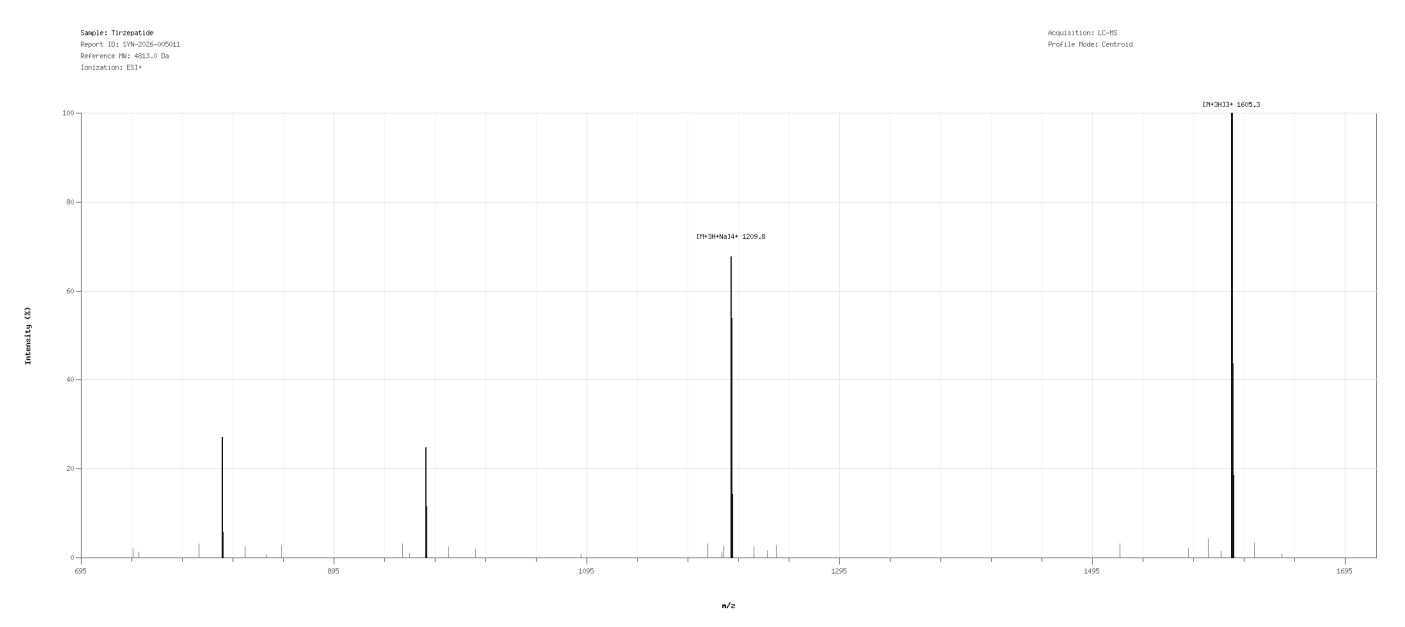
TECHNICAL NOTE

Analysis performed by RP-HPLC-UV at 220 nm using a gradient elution program. Total runtime: 14.0 minutes.

COMMENTS

The evaluated material meets the defined analytical specifications for identity, purity and impurity profile based on the applied RP-HPLC-UV method.

LC-MS MASS SPECTRUM



ANALYSIS & METHODOLOGY

STANDARD PEPTIDE PURITY, MASS & ADDITIONAL TESTING

RP-HPLC-UV analysis was conducted under standardized conditions. Retention time, peak symmetry and analytical response were reviewed against established internal benchmarks.

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	< 0.001	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-2026-005011
Verification Key VK-2FU7-EPSZ

SCAN TO VERIFY



DIGITAL SIGNATURE

DIGITALLY SIGNED BY:
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Date: 2026.06.30
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Analysis date: Jun 29, 2026
Report generated: Jun 30, 2026
Analytical testing performed by Synaptica Analytics -
Analytical Services Division

Synaptica Analytics
SYN-2026-005011
Laboratory Analysis Report
VK-2FU7-EPSZ

VERIFY AT
synaptica-labs.com/verify-report