

Analysis Report

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

SAMPLE Retatrutide	RECEIVED DATE Sep 03, 2026	ANALYSIS DATE Sep 07, 2026	REPORT GENERATED Sep 14, 2026
STRENGTH	10mg	MANUFACTURER	PepticoresAminos
BATCH NUMBER	PC-RT10-1020C	LAB CODE	983-1
CLIENT	www.pepticoresaminos.net		

SAMPLE INFORMATION

Retatrutide

10MG

FORM White lyophilized powder in a glass vial

SAMPLE SUBMISSION Sample provided by customer

BATCH PC-RT10-1020C

CAP / CRIMP COLOR Transparent Lime / Silver

RECEIVED DATE Sep 03, 2026



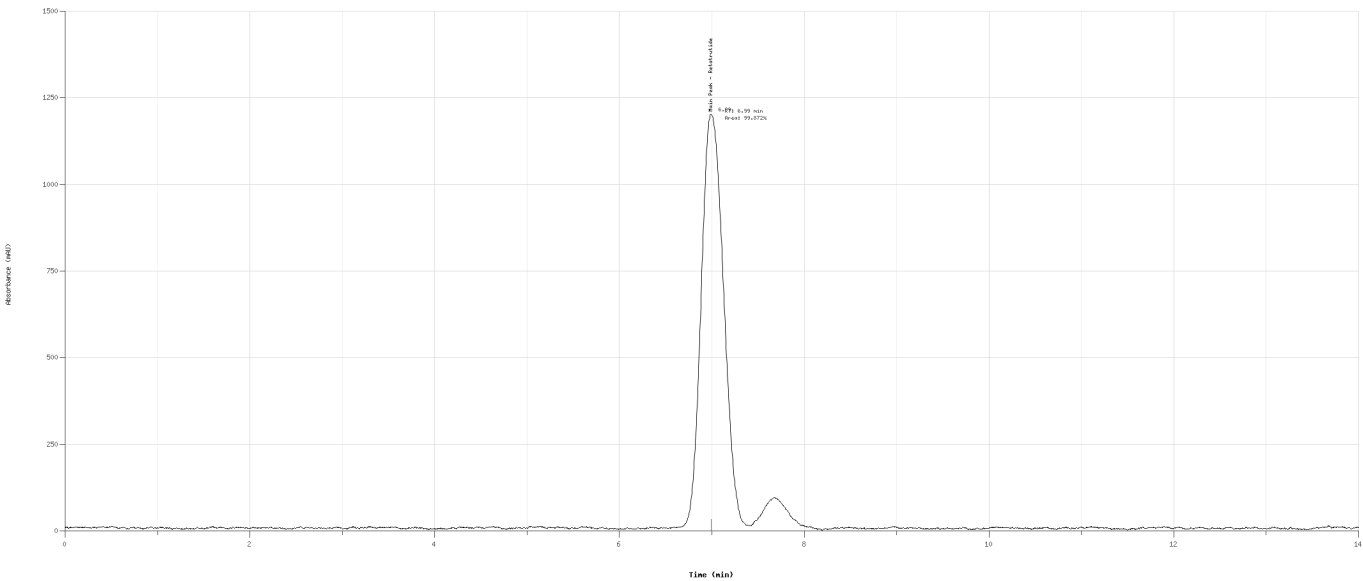
SAMPLE IMAGE

ANALYTICAL SUMMARY

IDENTITY	Retatrutide
PURITY	99.872%
QUANTITY	12.21mg
BATCH	PC-RT10-1020C
MANUFACTURER	PepticoresAminos

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

Sample ID: Retatrutide
Report ID: SW-2024-00077
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%

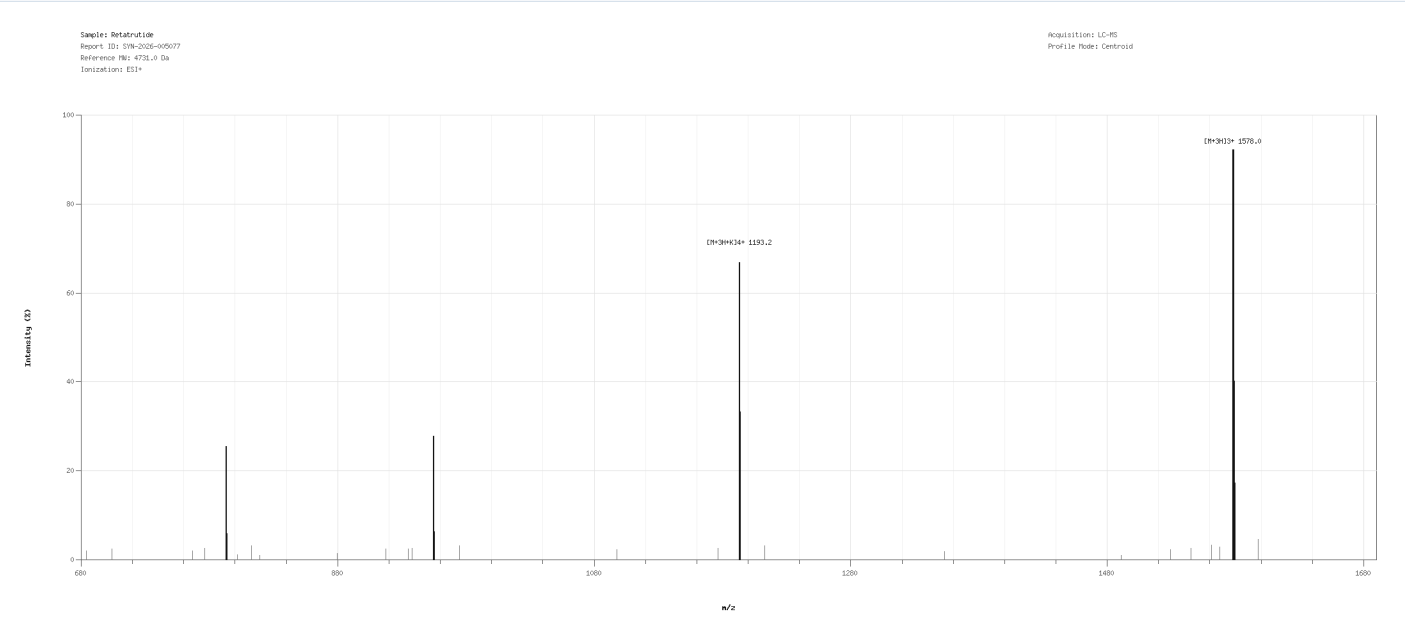
TECHNICAL NOTE

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

COMMENTS

Results indicate that the sample meets the defined analytical specifications for identity, purity and impurity profile using the applied RP-HPLC-UV method.

LC-MS MASS SPECTRUM



Observed ion distribution is consistent with the expected mass profile of the submitted analyte.

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	< 0.003	EU/mg	NMT 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	RETATRUTIDE
PUBCHEM CID	171390338
CAS	2381089-83-2
MOLECULAR FORMULA	C221H342N46O68
MOLECULAR WEIGHT	4731.0 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	Retention-time, UV response and mass-spectrum review

PARAMETER	HIGH-RESOLUTION UPLC/HPLC-UV PLATFORM
WORKFLOW NOTE	Used for long peptide analytical profile review
MS DETECTOR	Mass spectrometer, ESI+ acquisition
MS ACQUISITION	LC-MS spectral acquisition and processing

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

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

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-2026-005077

Verification Key VK-ESWX-PDDR

SCAN TO VERIFY



DIGITAL SIGNATURE

DIGITALLY SIGNED BY:
Martin Saar
Date: 2026.09.14
12:43:54 +02'00'
Director

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Analysis date: Sep 07, 2026
Report generated: Sep 14, 2026
Analytical testing performed by Synaptica Analytics -
Analytical Services Division

Synaptica Analytics
SYN-2026-005077
Laboratory Analysis Report
VK-ESWX-PDDR

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