

Certificate of Analysis

Lab ID: **RET-509**

REPORTED September 10, 2026

CLIENT

VERIFY peptidetestcanada.ca/verify

EMAIL info@peptidetestcanada.ca

ORDER # PTC-458618

SCAN TO VERIFY



PTC-LQJW3U67

END CUSTOMER

NAME Viva Peptides

§ 01 Sample Information

FOR RESEARCH PURPOSES ONLY

Sample ID:	RET-509	Received:	09/01/2026
Compound:	Retatrutide	Analyzed:	09/10/2026
Report No.:	COA-2026-SC-02379	CAS:	2381089-83-2
Total Mass:	84.1 mg	Formula:	C₂₂₁H₃₄₂N₄₆O₆₈
Appearance:	Lyophilized powder	Mol Weight:	4731.3 g/mol

SAMPLE PHOTOGRAPH



§ 02 Analytical Results

Qualitative and Quantitative chemical analysis by Liquid Chromatography Tandem Mass Spectrometry (HPLC-MS/MS)

	SPECIFICATION	RESULT	STATUS
Compound Test:	Retatrutide	Retatrutide	
Net Peptide Content:	20.00 mg	26.74 mg	
Peptide Fill Accuracy:	≥ 90 %	133.7 %	PASS
Chromatographic Purity:	≥ 98 %	99.7 %	

Peptide fill accuracy is the measured net peptide content expressed as a percentage of the declared label claim (measured ÷ label claim × 100).

Chromatographic purity is the target peptide's concentration as a percentage of the total peptide concentration measured — the target peptide against the other trace peptides detected in the same sample. It reflects peptide-related impurities only; it does not measure salts, excipients, or water, and is separate from net peptide content (the actual mg of peptide). — means not determined.

§ 03 HPLC-MS/MS Detail

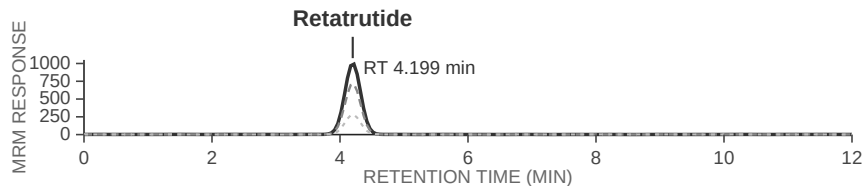
METHOD B · AGILENT 1290 INFINITY II + 6495 QQQ · ESI+

PRECURSOR [M+5H]⁵⁺

947.90 Da

Quantifier transition ● MRM

947.90 > 136.10 CE 30 V



ROLE	TRANSITION	CE
● Quantifier	947.9 > 136.1	30 V
■ Qualifier	947.9 > 110.1	35 V

Agilent Poroshell 120 EC-C18 · 2.1×100 mm · 2.7 μm · Solvent A: 0.1 % formic acid in H₂O · Solvent B: 0.1 % formic acid in Acetonitrile

DISCLAIMER · RESEARCH USE ONLY

Results relate **only to the sample as received** by Side-Chain Analytics Inc. and the tests performed, as and when received — not to any other unit, vial, lot, or batch, and not to any other product bearing the same name, label, or description. This report is not a verification of any lot or batch. **For research use only:** this report is not a certificate of quality, safety, efficacy, or regulatory compliance; the material tested is not authorized by Health Canada for human or veterinary use; and this report is not for human or veterinary administration, clinical or diagnostic use, or label claims. Side-Chain Analytics Inc. does not manufacture, source, or sell the material tested and makes **no warranty, express or implied**; its liability shall not exceed the testing fee. This report may not be reproduced except in full, and may not be reproduced, displayed, quoted, or referenced — in whole or in part, including by any badge, seal, or link — in connection with the advertising, offer for sale, sale, or distribution of any product. This certificate is valid only as currently shown at sidechainanalytics.com/verify and may be withdrawn.



Certificate of Analysis

Lab ID: **HM-RET-509**

REPORTED September 15, 2026

CLIENT

VERIFY peptidetestcanada.ca/verify

EMAIL info@peptidetestcanada.ca

ORDER # PTC-458618

SCAN TO VERIFY



PTC-4TDSGEYD

END CUSTOMER

NAME Viva Peptides

§ 01 Sample Information

FOR RESEARCH PURPOSES ONLY

Sample ID: **HM-RET-509**
Compound: **Retatrutide**
Report No.: **COA-2026-SC-02379-HM**
Lot Number: **COA-2026-SC-02379**
Total Mass: **84.1 mg**
Appearance: **Lyophilized powder**

Received: **09/01/2026**
Analyzed: **09/15/2026**
CAS: **2381089-83-2**
Formula: **C₂₂₁H₃₄₂N₄₆O₆₈**
Mol Weight: **4731.3 g/mol**

SAMPLE PHOTOGRAPH



§ 02 Heavy Metals Analysis

ICP-MS · ICH Q3D CLASS 1 · PARENTERAL · AGILENT ICPMS
8800 QQQ

ELEMENT	RESULT	RESULT vs LIMIT	LIMIT	STATUS
HEAVY METALS · ICH Q3D Class 1 · Parenteral limit				
Pb Lead	0.039		≤ 5	✓
Cd Cadmium	0		≤ 2	✓
As Arsenic	BDL		≤ 15	✓
Hg Mercury	BDL		≤ 3	✓

Class 1 heavy-metal screen: conforms · QC Pass · Analyzed 2026-09-14 · Bar = result against its limit (tick) · STATUS: **green check** at/below limit · **Fail** over it · **Warning** when a warning range is set · Class-1 (Pb, Cd, As, Hg) limit = ICH Q3D Parenteral PDE (Cd 2.0 · Pb 5.0 · As 15.0 · Hg 3.0) · Units µg/g (≡ ppm) · LOQ 0.005–0.05 µg/g · BDL = below detection limit

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Certificate of Analysis

Lab ID: **ENDO-RET-509**

REPORTED September 10, 2026

CLIENT

VERIFY peptidetestcanada.ca/verify

EMAIL info@peptidetestcanada.ca

ORDER # PTC-458618

SCAN TO VERIFY



PTC-FGK34VXN

END CUSTOMER

NAME Viva Peptides

§ 01 Sample Information

FOR RESEARCH PURPOSES ONLY

Sample ID:	ENDO-RET-509	Received:	09/01/2026
Compound:	Retatrutide	Analyzed:	09/10/2026
Report No.:	COA-2026-SC-02379-EN	CAS:	2381089-83-2
Lot Number:	COA-2026-SC-02379	Formula:	C₂₂₁H₃₄₂N₄₆O₆₈
Total Mass:	84.1 mg	Mol Weight:	4731.3 g/mol
Aliquot mass:	10.2 mg		
Appearance:	Lyophilized powder		

SAMPLE PHOTOGRAPH



§ 02 Endotoxin Analysis

KINETIC CHROMOGENIC LAL/TAL ENDOTOXIN TEST (USP <85>)

BACTERIAL ENDOTOXIN · KINETIC CHROMOGENIC (QUANTITATIVE)



**below 0.12
EU/mL**

Measured endotoxin below 0.12 EU/mL is **within** the 1 EU/mL limit.

Test method	Kinetic Chromogenic LAL/TAL Endotoxin Test (USP <85>)
Measured endotoxin	below 0.12 EU/mL
Endotoxin limit	1 EU/mL

The endotoxin limit is established by the endotoxin test kit manufacturer.

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Certificate of Analysis

Retatrutide

Sample ID: RET-006

IDENTITY	TOTAL SAMPLE MASS	PURITY · HPLC
CONFIRMED	72.0 mg	98.8 %

§ 01 Sample & Submission

FOR RESEARCH PURPOSES ONLY

ANALYTE

PRODUCT	Retatrutide	CAS	2381089-83-2	SAMPLE ID	RET-006
SAMPLE FORM	Lyophilized powder	RECEIVED	May 22, 2026	REPORTED	May 26, 2026
TOTAL SAMPLE MASS	72.0 mg	EXPECTED ACTIVE INGREDIENT	10.000 mg	LOT NUMBER	—

Total sample mass is the gravimetric weight of the entire sample as received in the lab (peptide plus any matrix, counter-ions, or excipients). **Expected active ingredient** is the peptide amount declared on the sample container — the reference value used in the purity calculation.

DISTRIBUTOR

NAME Peptide Test Canada
CONTACT PTC Operations
EMAIL Info@peptidetestcanada.ca
ADDRESS Canada

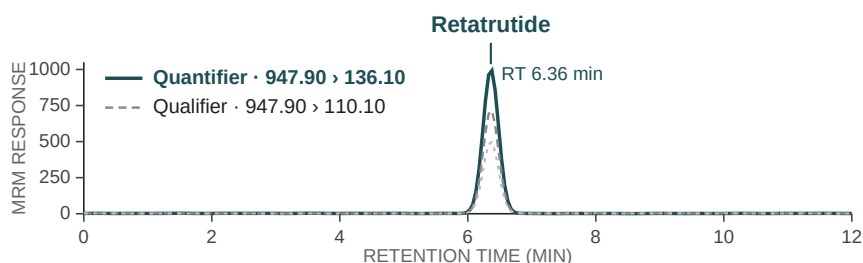
END CUSTOMER

NAME Viva Peptides
EMAIL info@vivapeptides.ca
ADDRESS Canada

§ 02 Purity · LC-MS/MS (MRM)

METHOD B · AGILENT 6470 · ESI+ · TRIPLE QUAD

PEPTIDE	FORMULA	EXACT MASS (MONO.)	PRECURSOR [M+5H] ⁵⁺	Quantifier transition ● MRM
Retatrutide	C229H366N50O75	4734.40 Da	947.90 Da	947.90 > 136.10 CE 30 V



ROLE	TRANSITION	CE
Quantifier	947.9 > 136.1	30 V
Qualifier	947.9 > 110.1	35 V

TOTAL SAMPLE MASS	EXPECTED ACTIVE INGREDIENT	LC-MS ACTIVE PEPTIDE	PURITY
72.0 mg	10.000 mg	9.675 mg	98.75 %

Total sample mass is the gravimetric weight of the entire sample as received in the lab. **Expected active ingredient** is the peptide amount declared on the sample label. **LC-MS active peptide** is the actual peptide mass identified by MRM.

Agilent Poroshell 120 EC-C18 · 2.1×100 mm · 2.7 µm · Solvent A: 0.1 % formic acid in H₂O · Solvent B: 0.1 % formic acid in Acetonitrile

DISCLAIMER · RESEARCH USE ONLY

This report documents **analytical results only**. Provided for **research purposes only**; not a drug-release or quality certification. SideChain Analytics makes no representation regarding resale, clinical use, or human / veterinary administration of the material.

CERTIFICATE OF ANALYSIS

Endotoxin Test

Report No.:	QC-2026-025	Testing Lab:	Peptide Test Canada
Lot Number:	Retatrutide/Viva	Method (Endo):	USP <85> Kinetic Turbidimetric
Test Date:	May 20, 2026	Status:	ALL TESTS PASSED ✓
Report Date:	May 25, 2026		

1. Retatrutide

Lot Number:	Retatrutide/Viva	Appearance:	White lyophilized powder
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Bacterial Endotoxin Testing (USP <85> — LAL Kinetic Turbidimetric)

Test / Organism	Acceptance Criteria	Result	Status
Bacterial Endotoxins (LAL)	< 1.0 EU/mg	< 0.10 EU/mg	PASS
Endotoxin Spike Recovery	50 – 200 %	98.8 %	PASS
Reagent Blank	< 0.005 EU/mL	< 0.005 EU/mL	PASS

✓ENDOTOXIN TESTS PASSED — COMPLIANT WITH HEALTH CANADA SPECIFICATIONS

CERTIFICATE OF ANALYSIS

Heavy Metal Testing Report

Peptide Test Canada | ISO/IEC 17025:2017 Accredited |

Report Number:	HM-2026-0414-001
Report Date:	May 25, 2026
Test Date:	May 22, 2026
Lot Number:	RETATRUTIDE / Viva
Testing Method:	ICP-MS (Inductively Coupled Plasma – Mass Spectrometry)
Method Reference:	USP <232> / ICH Q3D; EPA Method 6020B
Instrument:	Agilent 7900 ICP-MS
Analyst:	Dr. M. Salem, Ph.D.
Laboratory:	Peptide Test Canada 16 Falconer Drive, Suite 14 Mississauga, ON L5N 3M1 Canada +1 (416) 800-8008

Retatrutide— Peptide				
Compound: Retatrutide	Lot #: Retatrutide/Viva	Test Date: May 22, 2026	Overall Result:	PASS

Metal / Element	Symbol	Result	Limit	Unit	Status
Arsenic (As)	As	<0.008	<2.0	µg/g	PASS
Cadmium (Cd)	Cd	<0.002	<0.5	µg/g	PASS
Lead (Pb)	Pb	<0.003	<0.5	µg/g	PASS
Mercury (Hg)	Hg	<0.009	<0.3	µg/g	PASS
Antimony (Sb)	Sb	<0.002	<1200	µg/g	PASS
Barium (Ba)	Ba	<0.010	<1400	µg/g	PASS
Chromium (Cr)	Cr	<0.01	<250	µg/g	PASS
Copper (Cu)	Cu	<0.020	<300	µg/g	PASS
Molybdenum (Mo)	Mo	<0.010	<300	µg/g	PASS
Nickel (Ni)	Ni	<0.03	<200	µg/g	PASS
Tin (Sn)	Sn	<0.010	<600	µg/g	PASS
Vanadium (V)	V	<0.06	<100	µg/g	PASS

All analytes measured by ICP-MS (Inductively Coupled Plasma – Mass Spectrometry) against certified reference standards. Results are reported on an as-received basis. Limits conform to USP <232> / ICH Q3D elemental impurity guidelines for parenteral/oral pharmaceutical products.