



Certificate of Analysis

Lab ID: **HM-MOTS-154**

REPORTED September 15, 2026

CLIENT

VERIFY peptidetestcanada.ca/verify

EMAIL info@peptidetestcanada.ca

ORDER # PTC-458618

SCAN TO VERIFY



[PTC-53GVWRND](#)

END CUSTOMER

NAME Viva Peptides

§ 01 Sample Information

FOR RESEARCH PURPOSES ONLY

Sample ID: **HM-MOTS-154**
Compound: **MOTS-c**
Report No.: **COA-2026-SC-02381-HM**
Lot Number: **COA-2026-SC-02381**
Total Mass: **125.6 mg**
Appearance: **Lyophilized powder**

Received: **09/01/2026**
Analyzed: **09/15/2026**
CAS: **1627580-64-6**
Formula: **C₁₀₁H₁₅₂N₂₈O₂₂S₂**
Mol Weight: **2174.5 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	0.044		≤ 5	✓
Cd Cadmium	0.002		≤ 2	✓
As Arsenic	0.011		≤ 15	✓
Hg Mercury	0.007		≤ 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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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: **ENDO-MOTS-154**

REPORTED September 10, 2026

CLIENT

VERIFY peptidetestcanada.ca/verify

EMAIL info@peptidetestcanada.ca

ORDER # PTC-458618

SCAN TO VERIFY



PTC-5MWH9F3E

END CUSTOMER

NAME Viva Peptides

§ 01 Sample Information

FOR RESEARCH PURPOSES ONLY

Sample ID:	ENDO-MOTS-154	Received:	09/01/2026
Compound:	MOTS-c	Analyzed:	09/10/2026
Report No.:	COA-2026-SC-02381-EN	CAS:	1627580-64-6
Lot Number:	COA-2026-SC-02381	Formula:	C₁₀₁H₁₅₂N₂₈O₂₂S₂
Total Mass:	125.6 mg	Mol Weight:	2174.5 g/mol
Aliquot mass:	10.3 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

Lab ID: **MOTS-154**

REPORTED September 10, 2026

CLIENT

VERIFY peptidetestcanada.ca/verify

EMAIL info@peptidetestcanada.ca

ORDER # PTC-458618

SCAN TO VERIFY



PTC-CLTCPP6T

END CUSTOMER

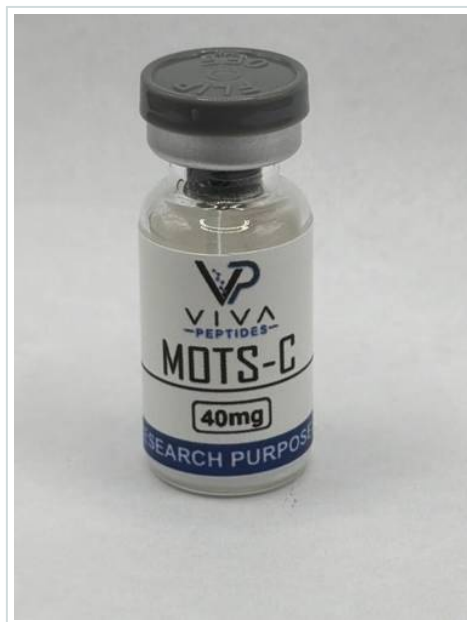
NAME Viva Peptides

§ 01 Sample Information

FOR RESEARCH PURPOSES ONLY

Sample ID:	MOTS-154	Received:	09/01/2026
Compound:	MOTS-c	Analyzed:	09/10/2026
Report No.:	COA-2026-SC-02381	CAS:	1627580-64-6
Total Mass:	125.6 mg	Formula:	C₁₀₁H₁₅₂N₂₈O₂₂S₂
Appearance:	Lyophilized powder	Mol Weight:	2174.5 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:	MOTS-c	MOTS-c	PASS
Net Peptide Content:	40.00 mg	48.64 mg	
Peptide Fill Accuracy:	≥ 90 %	121.6 %	
Chromatographic Purity:	≥ 98 %	99.5 %	

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

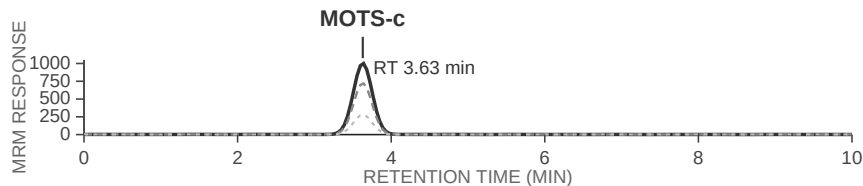
METHOD A · AGILENT 1290 INFINITY II + 6495 QQQ · ESI+

PRECURSOR [M+3H]³⁺

725.50 Da

Quantifier transition ● MRM

725.50 > 175.10 CE 25 V



ROLE	TRANSITION	CE
● Quantifier	725.5 > 175.1	25 V
■ Qualifier	725.5 > 159.1	30 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

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MOTS-005

REPORTED June 25, 2026

CLIENT

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

SCAN TO VERIFY



PTC-YDCYVJMA

END CUSTOMER

NAME Viva Peptides
EMAIL
PHONE
ADDRESS

§ 01 Sample Information

FOR RESEARCH PURPOSES ONLY

Sample ID:	MOTS-005	Total Mass:	143.5 mg	CAS:	1627580-64-6
Compound:	MOTS-c	Appearance:	Lyophilized powder	Formula:	C₁₀₀H₁₅₂N₂₈O₂₂
Report No.:	COA-2026-SC-00080	Received:	06/24/2026	Mol Weight:	2174.5 g/mol
Lot Number:	COA-2026-SC-00080	Analyzed:	06/25/2026		

§ 02 Analytical Results

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

	SPECIFICATION	RESULT	STATUS
Compound Test:	MOTS-c	MOTS-c	PASS
Quantity:	10.00 mg	9.43 mg	
Purity:	≥ 98 %	98.33 %	

§ 03 LC-MS/MS Detail

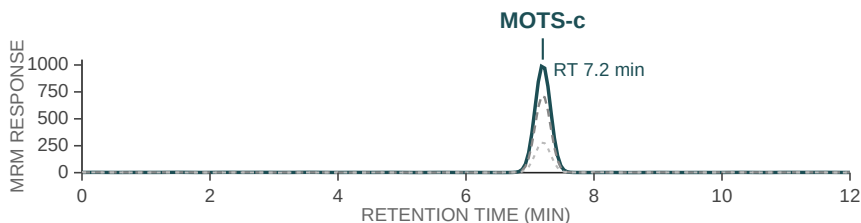
METHOD B · AGILENT 1290 INFINITY II + 6495 QQQ · ESI+

PRECURSOR [M+4H]⁴⁺

544.70 Da

Quantifier transition ● MRM

544.70 > 136.10 CE 25 V



ROLE	TRANSITION	CE
● Quantifier	544.7 > 136.1	25 V
■ Qualifier	544.7 > 110.1	30 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

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-2026-080	Testing Lab:	Peptide Test Canada
Lot Number:	MOTS-c - 00080	Method (Path.):	
Test Date:	June 25, 2026	Method (Endo.):	USP <85> Kinetic Turbidimetric
Report Date:	June 25, 2026	Status:	ALL TESTS PASSED ✓

1. BPC-157

Lot Number:	MOTS-c - 00080	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 %	99.7%	PASS
Reagent Blank	< 0.005 EU/mL	< 0.005 EU/mL	PASS

✓ENDOTOXIN TESTS PASSED — COMPLIANT WITH HEALTH CANADA SPECIFICATIONS

REPORTED July 17, 2026

CLIENT		END CUSTOMER	
VERIFY	Peptidetestcanada.ca/verify	NAME	Viva Peptides
EMAIL	Info@peptidetestcanada.ca	EMAIL	
		PHONE	
		ADDRESS	

§ 01 Sample Information		FOR RESEARCH PURPOSES ONLY	
Sample ID:	HM-MOTS-005	Total Mass:	143.5 mg
Compound:	MOTS-c	Appearance:	Lyophilized powder
Report No.:	COA-2026-SC-00080-HM	Received:	06/24/2026
Lot Number:	COA-2026-SC-00080	Analyzed:	07/17/2026
		CAS:	1627580-64-6
		Formula:	C ₁₀₀ H ₁₅₂ N ₂₈ O ₂₂
		Mol Weight:	2174.5 g/mol

§ 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	0.8		≤ 5	PASS
Cd Cadmium	0.008952		≤ 2	PASS
As Arsenic	0.01487		≤ 15	PASS
Hg Mercury	0.46		≤ 3	PASS
ELEMENTAL FINGERPRINT · Process / catalyst markers · informational				
Fe Iron	0.9		report only	reported
Cu Copper	1.4		report only	reported
Ni Nickel	1.2		report only	reported

Class 1 heavy-metal screen: PASS · QC Pass · Analyzed 2026-07-03 · Bar = each result against its limit (tick) · colour = severity green safe → amber near limit → red over · STATUS: PASS (green) at or below the limit · FAIL (red) over it — an amber WARNING appears only when a warning range is set · Class-1 metals (Pb, Cd, As, Hg): FAIL limit = ICH Q3D Parenteral PDE (Cd 2.0 · Pb 5.0 · As 15.0 · Hg 3.0) · Fe, Cu, Ni are REPORTED for information only — no limit and no pass/fail · Units µg/g (≡ ppm) · LOQ 0.005–0.05 µg/g (Fe 1) · BDL = below detection limit

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