

ILS Laboratories
 8222 Vickers St, Suite 106, San Diego, CA 92111
 (619) 329-3999 | ils-lab.com

MOTS-C

Tested for: Voltera Sciences
 www.volterasciences.com


COA #: **COA-2026-412741**
 Lot Number: **MS10.05.28.26**
 Accession #: **ACC-2026-3699**

Method: **Full QC Panel**
 Analysis Date: **06/05/2026**
 Appearance: **Good**
 Date Received: **06/01/2026**

PASS



Scan to verify
 authenticity at ils-lab.com
 Access Code: 94C6TYEW

Identity	Peptide Purity	Fentanyl Free
MOTS-C	99.39%	

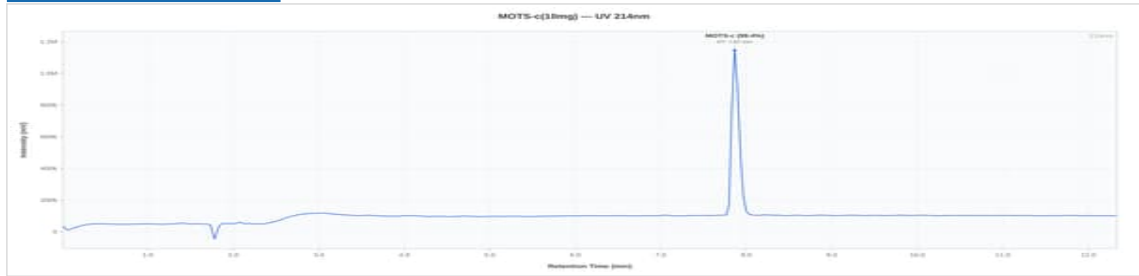


MOTS-C - MS10.05.28.26

Full QC Panel

Analyte	Specification	Result	Unit	Status
Peptide Purity (HPLC)	>= 95.0%	99.39%	%	PASS
Net Peptide Content	Report Only	10.65	mg	N/A
Identity (HPLC-RTM)	MOTS-c	Confirmed	-	PASS
Fentanyl Screen	Immunoassay, 50 ng/mL cutoff	Not Detected	-	PASS

HPLC Chromatogram



MOTS-C - MS10.05.28.26: UV Chromatogram

Heavy Metals Analysis (ICP-MS)

Test	Specification	Result	Status
Arsenic (As)	NMT 1.5 ppm	Not Detected	PASS
Cadmium (Cd)	NMT 0.5 ppm	Not Detected	PASS
Chromium (Cr)	NMT 10 ppm	Not Detected	PASS
Mercury (Hg)	NMT 1.5 ppm	Not Detected	PASS
Lead (Pb)	NMT 1 ppm	Not Detected	PASS

Sterility Testing (PCR)

Test	Specification	Result	Status
Sterility (PCR)	No Growth	No Growth	PASS




Dr. Greg Kalyuzhny
 Lab Director
 6/7/2026

COA #: **COA-2026-412741**
 Access Code: **94C6TYEW**
 Verify: portal.ils-lab.com/verify/7ylluE61tQslW_MW
 Issued: 6/7/2026

Endotoxin Testing (USP <85>)

Test	Specification	Result	Status
Endotoxin (USP <85>)	Report Result	0.11 EU/mL	Reported

About this result: Endotoxin is reported as a quantitative value. Acceptable limits vary by product type and matrix, so no universal pass/fail threshold applies to RUO products. This result is below commonly referenced endotoxin thresholds.

Notes & Methodology

1. Date Tested: 06/07/2026. Methods: Full QC Panel.
2. The sample was confirmed to be MOTS-C by HPLC. Identification by chromatographic retention time comparison with a reference standard.
3. Elemental impurities analyzed by ICP-MS per USP <233> methodology. Acceptance criteria are internal laboratory quality screening limits for research-use materials and do not represent evaluation against any specific pharmacopeial monograph or product specification.
4. Endotoxin tested per USP <85> kinetic turbidimetric method. Acceptance criteria per client specification.
5. Peptide purity determined by RP-HPLC area normalization at 214 nm. Value represents the percentage of the target peptide relative to all peptide-related peaks. Non-peptide process-related impurities, if detected, are excluded from the calculation.



Dr. Greg Kalyuzhny
Lab Director
6/7/2026

COA #: **COA-2026-412741**
Access Code: **94C6TYEW**
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Issued: 6/7/2026

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MOTS-C - 40mg

Tested for: **Voltera Sciences**
www.volterasciences.com


COA #: **COA-2026-412746**
Lot Number: **MS40.05.28.26**
Accession #: **ACC-2026-3575**
Labeled Content: **40mg**

Method: **Full QC Panel**
Analysis Date: **06/05/2026**
Appearance: **Good**
Sample Matrix: **Lyophilized**
Date Received: **05/30/2026**

PASS



Scan to verify authenticity at ils-lab.com
Access Code: A2X5FX5R

Identity: **MOTS-C** Peptide Purity: **99.69%**  **Fentanyl Free**

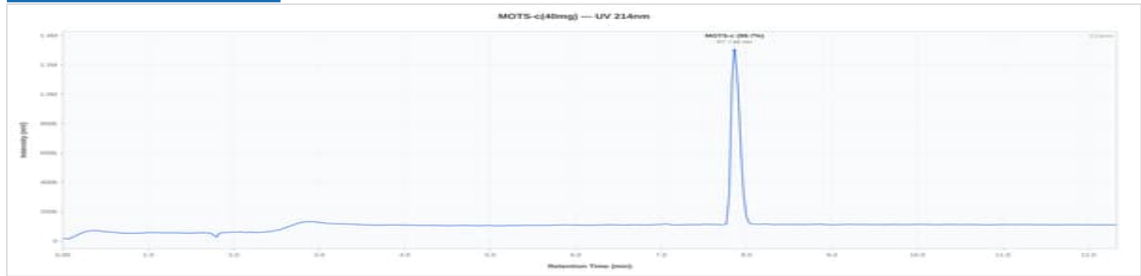


MOTS-C 40mg - MS40.05.28.26

Full QC Panel

Analyte	Specification	Result	Unit	Status
Peptide Purity (HPLC)	>= 95.0%	99.69%	%	PASS
Net Peptide Content	Report Only	41.95	mg	N/A
Identity (HPLC-RTM)	Mots-c	Confirmed	-	PASS
Fentanyl Screen	Immunoassay, 50 ng/mL cutoff	Not Detected	-	PASS

HPLC Chromatogram



MOTS-C 40mg - MS40.05.28.26: UV Chromatogram

Heavy Metals Analysis (ICP-MS)

Test	Specification	Result	Status
Arsenic (As)	NMT 1.5 ppm	Not Detected	PASS
Cadmium (Cd)	NMT 0.5 ppm	Not Detected	PASS
Chromium (Cr)	NMT 10 ppm	Not Detected	PASS
Mercury (Hg)	NMT 1.5 ppm	Not Detected	PASS
Lead (Pb)	NMT 1 ppm	Not Detected	PASS

Sterility Testing (PCR)

Test	Specification	Result	Status
Sterility (PCR)	No Growth	No Growth	PASS




Dr. Greg Kalyuzhny
Lab Director
6/7/2026

COA #: **COA-2026-412746**
Access Code: **A2X5FX5R**
Verify: portal.ils-lab.com/verify/p3hi-fqhj-1f9ux1
Issued: 6/7/2026

Endotoxin Testing (USP <85>)

Test	Specification	Result	Status
Endotoxin (USP <85>)	Report Result	0.13 EU/mL	Reported

About this result: Endotoxin is reported as a quantitative value. Acceptable limits vary by product type and matrix, so no universal pass/fail threshold applies to RUO products. This result is below commonly referenced endotoxin thresholds.

Notes & Methodology

1. Date Tested: 06/07/2026. Methods: Full QC Panel.
2. The sample was confirmed to be MOTS-C by HPLC. Identification by chromatographic retention time comparison with a reference standard.
3. Elemental impurities analyzed by ICP-MS per USP <233> methodology. Acceptance criteria are internal laboratory quality screening limits for research-use materials and do not represent evaluation against any specific pharmacopeial monograph or product specification.
4. Endotoxin tested per USP <85> kinetic turbidimetric method. Acceptance criteria per client specification.
5. Peptide purity determined by RP-HPLC area normalization at 214 nm. Value represents the percentage of the target peptide relative to all peptide-related peaks. Non-peptide process-related impurities, if detected, are excluded from the calculation.



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Lab Director
6/7/2026

COA #: **COA-2026-412746**
Access Code: **A2X5FX5R**
Verify: portal.ils-lab.com/verify/p3hi-fqhj-1f9ux1
Issued: 6/7/2026

Client: Voltera

Certified: 05/17/2026

This Certificate of Analysis certifies that the sample listed herein was tested by Kovera Labs using validated analytical methods and was found to meet the stated specifications at the time of analysis.

SAMPLE INFORMATION

Product	MOTS-c	Form	Lyophilized powder
Batch	MOTS.05.17.2026	Labeled Qty	10 mg
Mol. Formula	C101H152N28O22S2	CAS Number	1627580-64-6
Cap Color	Blue	Crimp Color	Green

TEST RESULTS

	REFERENCE STANDARD	RESULT
Batch Avg Purity	(>98%)	99.954% <input checked="" type="checkbox"/>
Batch Avg Net Content	(10mg ± 10%)	11.89 mg <input checked="" type="checkbox"/>
Identity Confirmation (LC-MS)	(MOTS-c)	MOTS-c <input checked="" type="checkbox"/>
Endotoxin Safety Screen	(≤0.5 EU/mL)	PASS <input checked="" type="checkbox"/>
Microbial Sterility Screen	(No Growth)	No Growth <input checked="" type="checkbox"/>

HEAVY METAL SCREENING

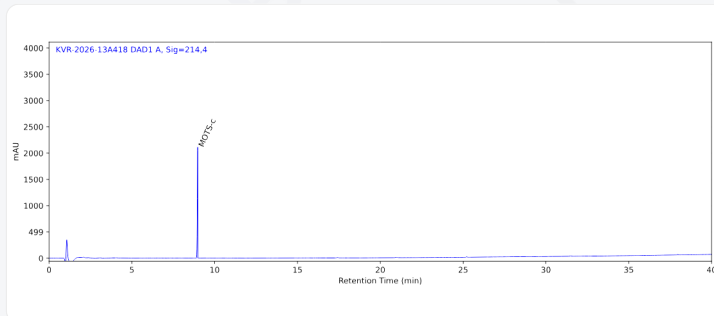
Analyte	Result	Status
Arsenic (As)	Negative	<input checked="" type="checkbox"/>
Cadmium (Cd)	Negative	<input checked="" type="checkbox"/>
Lead (Pb)	Negative	<input checked="" type="checkbox"/>
Mercury (Hg)	Negative	<input checked="" type="checkbox"/>

BATCH CONFORMITY RESULTS

Vial	Purity (%)	Net Content (mg)
Vial 1	99.977	11.87
Vial 2	99.932	11.92
Batch Average	99.954%	11.89 mg

CHROMATOGRAM

Method: RP-HPLC | Column: C18 | Detection: DAD @ 214 nm


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 Lab Director


koveralabs.com/verify

 Report#: KVR-2026-13A418
 Access Code: 36YROJE