

ILS Laboratories

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MOTS-C - 10mg



Tested for: Midwest Peptide
<https://midwestpeptide.com/>

COA #: COA-2026-6SPGF8
Lot Number: MPMC004
Accession #: ACC-2026-7902
Labeled Content: 10mg

Analysis Date: 07/16/2026
Appearance: Good
Sample Matrix: Lyophilized
Vial Size: 3mL
Date Received: 07/04/2026

PASS



Scan to verify
authenticity at ils-lab.com
Access Code: 6E956VB3

Method: Full QC Panel

Identity	Peptide Purity	Fentanyl Free
MOTS-C	99.48%	

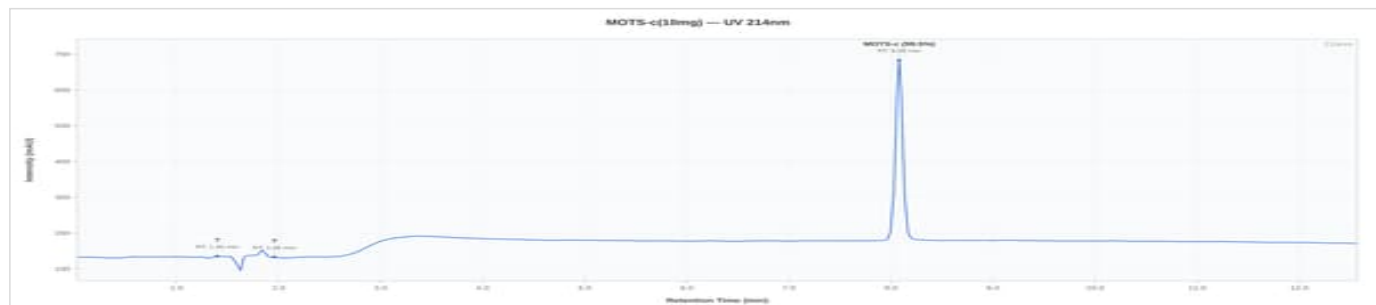
Full QC Panel

Analyte	Specification	Result	Unit	Status
Peptide Purity (HPLC)	>= 95.0%	99.48%	%	PASS
Net Peptide Content	Report Only	10.47	mg	N/A
Identity (HPLC-RTM)	MOTS-c	Confirmed	-	PASS
Fentanyl Screen	Immunoassay, 50 ng/mL cutoff	Not Detected	-	PASS



MOTS-C 10mg - MPMC004

HPLC Chromatogram



MOTS-C 10mg - MPMC004: 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



Dr. Greg Kalyuzhny

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Lab Director
7/16/2026

COA #: COA-2026-6SPGF8
Access Code: 6E956VB3
Verify: <portal.ils-lab.com/verify/I9wKv6tC1ZRnGO4A>
Issued: 7/16/2026

Sterility Testing (PCR)

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

Endotoxin Testing (USP <85>)

Test	Specification	Result	Status
Endotoxin (USP <85>)	Report Result	0.155 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: 07/16/2026. 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
7/16/2026

COA #: **COA-2026-6SPGF8**
Access Code: **6E956VBJ**
Verify: <portal.ils-lab.com/verify/I9wKv6tC1ZRnGO4A>
Issued: 7/16/2026