

ILS Laboratories

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MOTS-C - 40mg

Tested for: Regenerative Research
<https://www.regenerativeresearch.co/>

COA #: COA-2026-TB550D
Lot Number: 396004
Accession #: ACC-2026-9237
Labeled Content: 40mg

Analysis Date: 07/31/2026
Appearance: Good
Sample Matrix: Lyophilized
Volume: 6mL
Date Received: 07/09/2026

PASS



Scan to verify
authenticity at ils-lab.com
Access Code: KXE6KABQ

Method: Full QC Panel

Identity

MOTS-C

Peptide Purity

99.87%

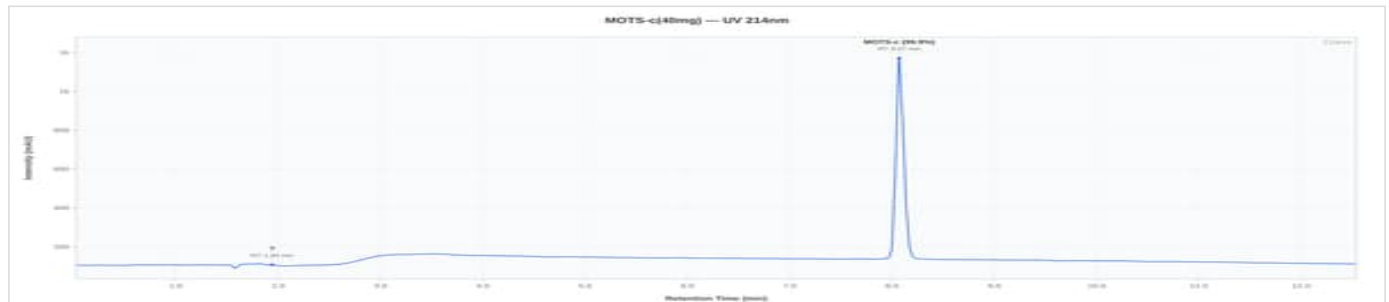


Fentanyl
Free

Purity, Identity & Quantitation (HPLC)

Analyte	Specification	Result	Unit	Status
Peptide Purity (HPLC)	>= 95.0%	99.87%	%	PASS
Net Peptide Content	Report Only	41.18	mg	N/A
Identity (HPLC-RTM)	MOTS-c	Confirmed	-	PASS
Fentanyl Screen	Immunoassay, 50 ng/mL cutoff	Not Detected	-	PASS

HPLC Chromatogram



Representative chromatogram, Dedicated V0

HPLC Conformity Testing Results (3 samples tested)

Sample	Purity	NPC	ID	Result
Dedicated V0	99.86%	41.55 mg	Confirmed	PASS
Conformity V1	99.86%	42.54 mg	Confirmed	PASS
Conformity V2	99.87%	41.18 mg	Confirmed	PASS
Mean	99.86%	41.76 mg	—	—
Std Dev	0.0047%	0.5741 mg	—	—



Dr. Greg Kalyuzhny

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Lab Director
7/31/2026

COA #: COA-2026-TB550D
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Verify: portal.ils-lab.com/verify/J6PO7_2WJRhkD7k
Issued: 7/31/2026

Heavy Metals Analysis (ICP-MS)

Test	Specification	Result	Status
Arsenic (As)	NMT 1.5 ppm	.25	PASS
Cadmium (Cd)	NMT 0.5 ppm	.1202	PASS
Lead (Pb)	NMT 1.0 ppm	.3652	PASS
Mercury (Hg)	NMT 1.5 ppm	.5663	PASS
Chromium (Cr)	NMT 10.0 ppm	3.25	PASS

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	NMT 0.05 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: 07/31/2026. Methods: Purity, Identity & Quantitation (HPLC).
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.
6. Chromatogram shown is representative: Dedicated V0 (99.86% purity, closest to batch mean of 99.86%).




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