

ILS Laboratories

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(619) 329-3999 | ils-lab.com

MOTS-C - 40mg



Tested for: Southern Aminos

31938 Temecula Pkwy, Suite A PMB #361 Temecula, CA 92592 | www.southernaminos.com

COA #: COA-2026-WGJKDX
Lot Number: MS400626N
Accession #: ACC-2026-7265
Labeled Content: 40mg

Analysis Date: 07/09/2026
Appearance: Good
Sample Matrix: Lyophilized
Vial Size: 3mL
Date Received: 07/01/2026

PASS



Scan to verify
authenticity at ils-lab.com
Access Code: 4PLKC85B

Method: Full QC Panel

Identity	Peptide Purity	Fentanyl Free
MOTS-C	99.85%	

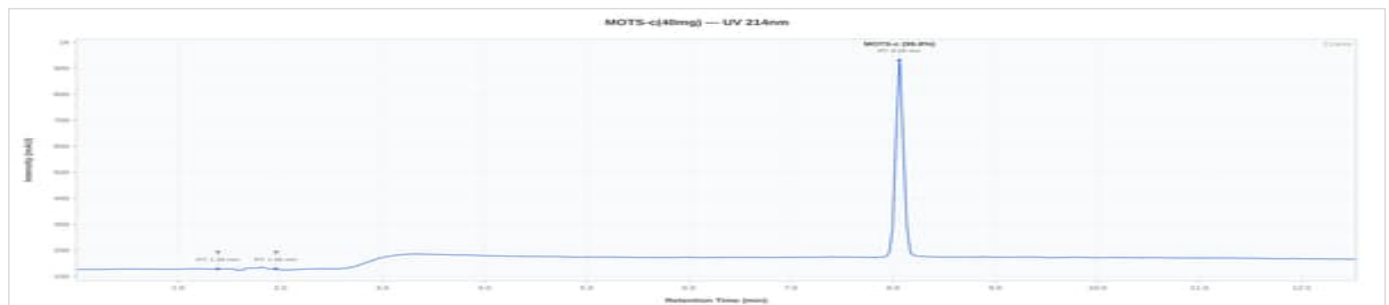
Purity & Quant (HPLC)

Analyte	Specification	Result	Unit	Status
Peptide Purity (HPLC)	>= 95.0%	99.85%	%	PASS
Net Peptide Content	Report Only	41.07	mg	N/A
Identity (HPLC-RTM)	MOTS-c	Confirmed	-	PASS
Fentanyl Screen	Immunoassay, 50 ng/mL cutoff	Not Detected	-	PASS



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HPLC Chromatogram



Representative chromatogram, Conformity V2

Heavy Metals (ICP-MS)

Analyte	Specification	Result	Unit	Status
Heavy Metals				
Arsenic (As)	<= 1.5 ppm	Not Detected	ppm	PASS
Cadmium (Cd)	<= 0.5 ppm	Not Detected	ppm	PASS
Lead (Pb)	<= 1.0 ppm	Not Detected	ppm	PASS
Mercury (Hg)	<= 1.5 ppm	Not Detected	ppm	PASS
Chromium (Cr)	<= 10.0 ppm	Not Detected	ppm	PASS



Dr. Greg Kalyuzhny

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Lab Director
7/9/2026

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Verify: portal.ils-lab.com/verify/5--kpiT9EthQ-dy
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HPLC Conformity Testing Results (8 samples tested)

Sample	Purity	NPC	ID	Result
Dedicated V0	99.85%	41.07 mg	Confirmed	PASS
Conformity V1	99.81%	42.26 mg	Confirmed	PASS
Conformity V2	99.83%	42.38 mg	Confirmed	PASS
Conformity V3	99.82%	42.71 mg	Confirmed	PASS
Conformity V4	99.85%	41.93 mg	Confirmed	PASS
Conformity V5	99.83%	41.91 mg	Confirmed	PASS
Conformity V6	99.85%	42.86 mg	Confirmed	PASS
Conformity V7	99.85%	42.2 mg	Confirmed	PASS
Mean	99.84%	42.16 mg	—	—
Std Dev	0.0149%	0.5191 mg	—	—

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	0.096 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: 07/09/2026. Methods: Purity & Quant (HPLC); Heavy Metals (ICP-MS).
2. The sample was confirmed to be MOTS-C by HPLC. Identification by chromatographic retention time comparison with a reference standard.
3. Endotoxin tested per USP <85> kinetic turbidimetric method. Acceptance criteria per client specification.
4. 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.
5. Chromatogram shown is representative: Conformity V2 (99.83% purity, closest to batch mean of 99.84%).





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