

ILS Laboratories

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

MOTS-C - 40mg

PASS



Tested for: Southern Aminos

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

COA #: COA-2026-DRZH3V
Lot Number: MS400516E
Accession #: ACC-2026-2893
Concentration: 40mg
Sample Matrix: Lyophilized

Method: Full QC Panel
Analysis Date: 05/26/2026
Appearance: Good
Volume: 3mL
Received: 05/20/2026



Scan to verify
authenticity at ils-lab.com

Identity

MOTS-C

Purity

99.85%



Fentanyl
Free

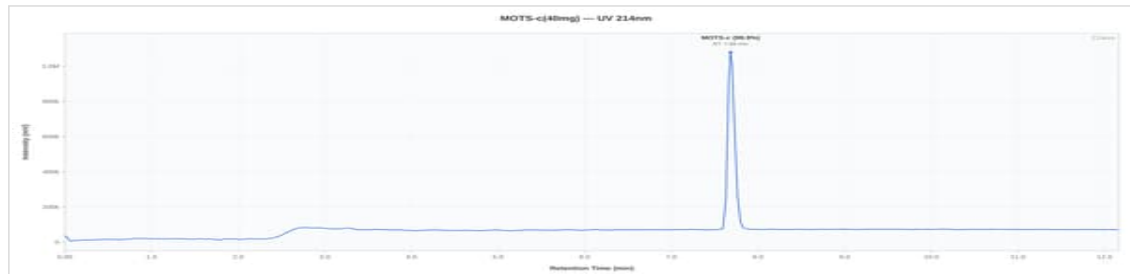
Purity & Quant (HPLC)

Analyte	Specification	Result	Unit	Status
Purity (HPLC)	>= 95.0%	99.85%	%	PASS
Net Peptide Content	Report Only	40.97	mg	N/A
Identity (ID)	MOTS-C	Confirmed	-	PASS
Fentanyl Screen	Immunoassay, 50 ng/mL cutoff	Not Detected	-	PASS



MOTS-C 40mg - MS400516E

HPLC Chromatogram



Representative chromatogram, Conformity V6 (99.76% purity, closest to batch mean of 99.76%)



Dr. Greg Kalyuzhny

Dr. Greg Kalyuzhny
Lab Director
5/26/2026

COA #: COA-2026-DRZH3V
Access Code: TDXFPBCU
Verify: portal.ils-lab.com/verify/FNuHw8uVWndkLEhr
Issued: 5/26/2026



Certificate of Analysis

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HPLC Conformity Testing Results (8 samples tested)

Sample	Purity	NPC	ID	Result
Dedicated V0	99.68%	41.22 mg	Confirmed	PASS
Conformity V1	99.82%	42.46 mg	Confirmed	PASS
Conformity V2	99.78%	41.37 mg	Confirmed	PASS
Conformity V3	99.85%	40.97 mg	Confirmed	PASS
Conformity V4	99.65%	41.14 mg	Confirmed	PASS
Conformity V5	99.81%	42.35 mg	Confirmed	PASS
Conformity V6	99.76%	42.32 mg	Confirmed	PASS
Conformity V7	99.76%	41.99 mg	Confirmed	PASS
Mean	99.76%	41.73 mg	—	—
Std Dev	0.0642%	0.5754 mg	—	—

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



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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	0.056 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: 05/26/2026. Methods: Purity & Quant (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 acceptance limits are product-specific. Results reported for client evaluation.
5. Chromatogram shown is representative: Conformity V6 (99.76% purity, closest to batch mean of 99.76%).



Handwritten signature

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5/26/2026

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