

ILS Laboratories

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MOTS-c - 10



Tested for: S20 Research, LLC
www.20aminos.com

COA #: COA-2026-953636
Lot Number: B10026
Accession #: ACC-2026-2335
Labeled Content: 10

Analysis Date: 05/15/2026
Appearance: Good
Sample Matrix: Lyophilized
Vial Size: 3
Date Received: 05/12/2026

PASS



Scan to verify
authenticity at ils-lab.com
Access Code: Z25Q59HX

Method: Full QC Panel

Identity

MOTS-c

Peptide Purity

99.72%

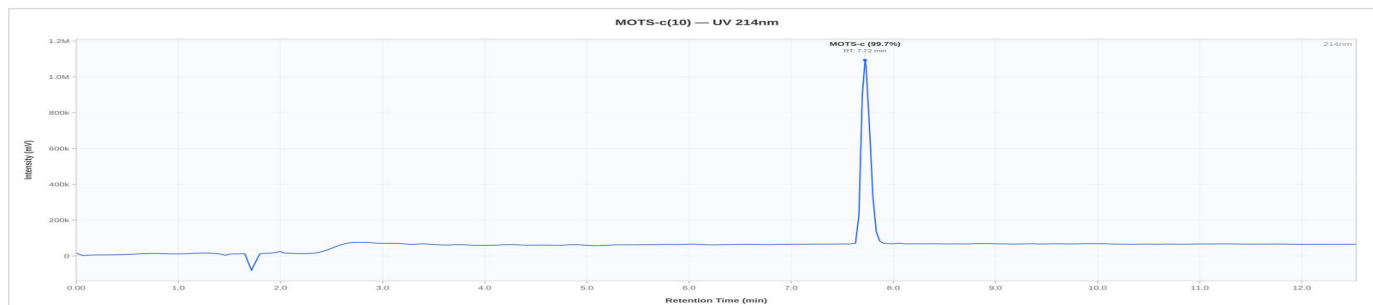


Fentanyl
Free

Purity & Quant (HPLC)

Analyte	Specification	Result	Unit	Status
Peptide Purity (HPLC)	>= 95.0%	99.72%	%	PASS
Net Peptide Content	Report Only	10.32	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 (2 samples tested)

Sample	Purity	NPC	ID	Result
Dedicated V0	99.62%	10.44 mg	Confirmed	PASS
Conformity V1	99.72%	10.32 mg	Confirmed	PASS
Mean	99.67%	10.38 mg	—	—
Std Dev	0.0500%	0.0600 mg	—	—



Dr. Greg Kalyuzhny

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Lab Director
7/9/2026

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Verify: portal.ils-lab.com/verify/j8s7CqPzIIROEMue
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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

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: 07/09/2026. 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 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 (99.62% purity, closest to batch mean of 99.67%).




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