Certificate of Analysis

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

MOTS-C - 40mg

Tested for: PeptidePlugs
peptideplugs.com

PASS

COA #:	**COA-2026-LAJ_12**	Method:	**Full QC Panel**
Lot Number:	**127-02-DK**	Analysis Date:	**06/09/2026**
Accession #:	**ACC-2026-3511**	Appearance:	**Good**
Labeled Content:	**40mg**	Sample Matrix:	**Lyophilized**
		Date Received:	**05/29/2026**

Scan to verify authenticity at ils-lab.com
Access Code: TK4B5YT5

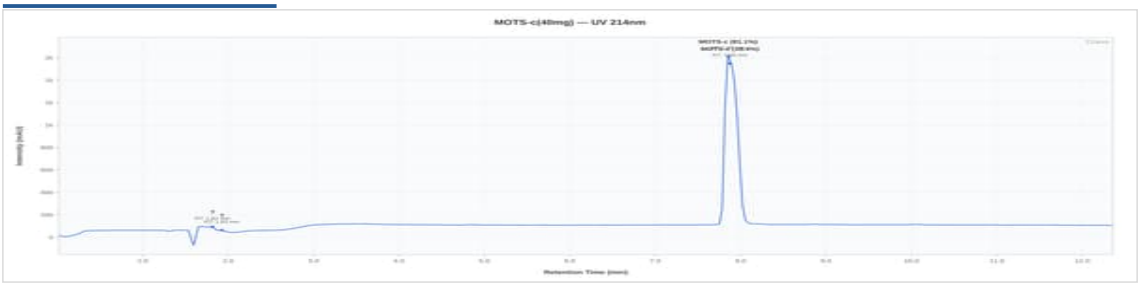
Identity	Peptide Purity	
MOTS-C	**99.51%**	**Fentanyl Free**

MOTS-C 40mg - 127-02-DK

Full QC Panel

Analyte	Specification	Result	Unit	Status
Peptide Purity (HPLC)	>= 95.0%	**99.51%**	%	**PASS**
Net Peptide Content	Report Only	**41.82**	mg	N/A
Identity (HPLC-RTM)	MOTS-c	**Confirmed**	-	**PASS**
Fentanyl Screen	Immunoassay, 50 ng/mL cutoff	**Not Detected**	-	**PASS**

HPLC Chromatogram



MOTS-C 40mg - 127-02-DK: 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**

Sterility Testing (PCR)

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

Dr. Greg Kalyuzhny
Lab Director
6/9/2026

COA #: **COA-2026-LAJ_12**
Access Code: **TK4B5YT5**
Verify: portal.ils-lab.com/verify/IkrzTBZ_LFgGU10V
Issued: 6/9/2026

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: 06/09/2026. 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.

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