

## ILS Laboratories

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

## MOTS-C - 40mg

Tested for: Peerless Peptides  
<https://peerlesspeptides.com>

COA #: COA-2026-412995  
Lot Number: 05-2606  
Accession #: ACC-2026-4340  
Labeled Content: 40mg

Analysis Date: 06/16/2026  
Appearance: Good  
Vial Size: 3mL  
Date Received: 06/09/2026

Method: Full QC Panel

PASS



Scan to verify  
authenticity at ils-lab.com  
Access Code: 2J9R7RQB

|          |                |               |
|----------|----------------|---------------|
| Identity | Peptide Purity | Fentanyl Free |
| MOTS-C   | 99.83%         |               |

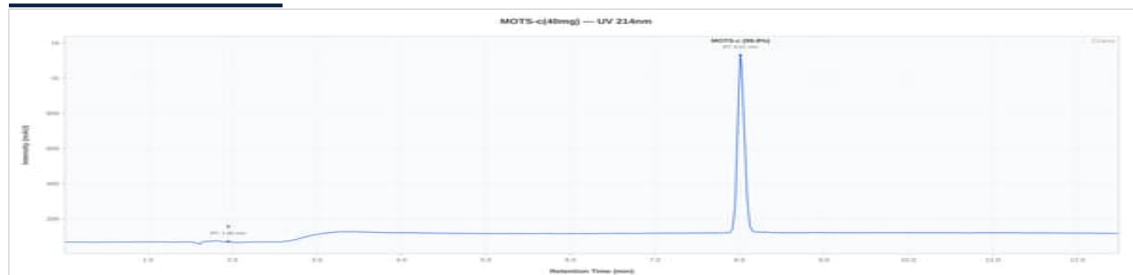
### Full QC Panel

| Analyte               | Specification                | Result       | Unit | Status |
|-----------------------|------------------------------|--------------|------|--------|
| Peptide Purity (HPLC) | >= 95.0%                     | 99.83%       | %    | PASS   |
| Net Peptide Content   | Report Only                  | 42.12        | mg   | N/A    |
| Identity (HPLC-RTM)   | MOTS-c                       | Confirmed    | -    | PASS   |
| Fentanyl Screen       | Immunoassay, 50 ng/mL cutoff | Not Detected | -    | PASS   |



MOTS-C 40mg - 05-2606

### HPLC Chromatogram



MOTS-C 40mg - 05-2606: 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*

Dr. Greg Kalyuzhny  
Lab Director  
6/20/2026

COA #: COA-2026-412995  
Access Code: 2J9R7RQB  
Verify: <portal.ils-lab.com/verify/FXnxn5RRPZ7gmi7L>  
Issued: 6/20/2026

Endotoxin Testing (USP <85>)

| Test                                                                                                                                                                                                                                                    | Specification | Result         | Status   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------------|----------|
| Endotoxin (USP <85>)                                                                                                                                                                                                                                    | Report Result | NMT 0.05 EU/mL | Reported |
| <p>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.</p> |               |                |          |

Notes & Methodology

1. Date Tested: 06/19/2026. 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.



  
**Dr. Greg Kalyuzhny**  
Lab Director  
6/20/2026

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