

## ILS Laboratories

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

## MOTS-C - 40mg

Tested for: Merit Sciences

<https://meritsciences.com/>

COA #: COA-2026-KFKYK8  
Lot Number: LOT2026-06-0001  
Accession #: ACC-2026-9964  
Labeled Content: 40mg

Analysis Date: 07/30/2026  
Appearance: Good  
Sample Matrix: Lyophilized  
Volume: 3mL  
Date Received: 07/14/2026

**PASS**



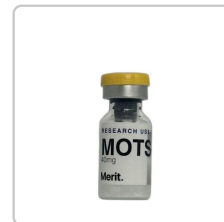
Scan to verify  
authenticity at ils-lab.com  
Access Code: 6J3GHEF9

Method: Full QC Panel

|               |                |                                                                                                          |
|---------------|----------------|----------------------------------------------------------------------------------------------------------|
| Identity      | Peptide Purity |                                                                                                          |
| <b>MOTS-C</b> | <b>99.27%</b>  |  <b>Fentanyl Free</b> |

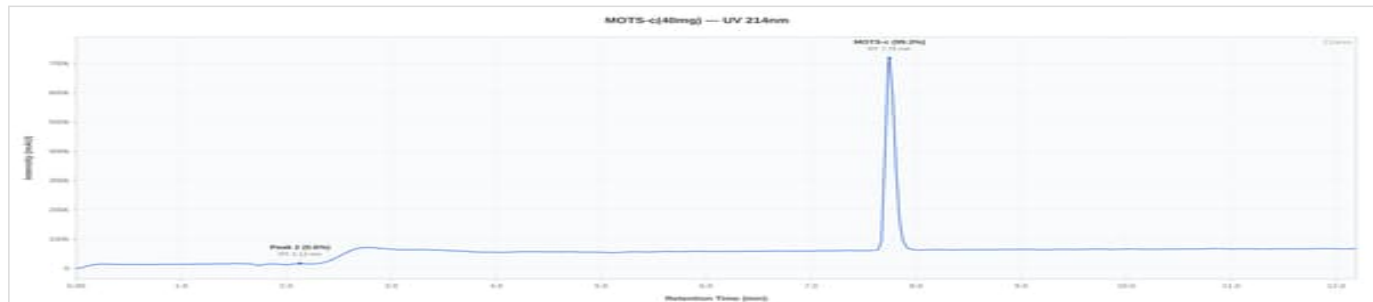
### Full QC Panel

| Analyte               | Specification                | Result       | Unit | Status |
|-----------------------|------------------------------|--------------|------|--------|
| Peptide Purity (HPLC) | >= 95.0%                     | 99.27%       | %    | PASS   |
| Net Peptide Content   | Report Only                  | 42.26        | mg   | N/A    |
| Identity (HPLC-RTM)   | MOTS-c                       | Confirmed    | -    | PASS   |
| Fentanyl Screen       | Immunoassay, 50 ng/mL cutoff | Not Detected | -    | PASS   |



MOTS-C 40mg - LOT2026-06-0001

### HPLC Chromatogram



MOTS-C 40mg - LOT2026-06-0001: 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   |
| Lead (Pb)     | NMT 1 ppm     | Not Detected | PASS   |
| Mercury (Hg)  | NMT 1.5 ppm   | Not Detected | PASS   |
| Chromium (Cr) | NMT 10 ppm    | 0.0784 ppm   | 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 | 0.135 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: 07/30/2026. 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  
7/30/2026

COA #: **COA-2026-KFKYK8**  
Access Code: **6J3GHEF9**  
Verify: <portal.ils-lab.com/verify/tcEb-b5TLj8cV92u>  
Issued: 7/30/2026