# Certificate of Analysis

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

## MOTS-C - 10mg

**Tested for: Amino Club**
aminoclub.com

**PASS**

| | | | |
|---|---|---|---|
| COA #: | **COA-2026-TD8WMV** | Analysis Date: | **07/30/2026** |
| Lot Number: | **MTC0003** | Appearance: | **Good** |
| Accession #: | **ACC-2026-9309** | Sample Matrix: | **Lyophilized** |
| Labeled Content: | **10mg** | Volume: | **3mL** |
| | | Date Received: | **07/09/2026** |

Scan to verify authenticity at ils-lab.com
**Access Code: KJ3X6QD5**

Method: **Full QC Panel**

| Identity | Peptide Purity | |
|---|---|---|
| **MOTS-C** | **99.81%** | **Fentanyl Free** |

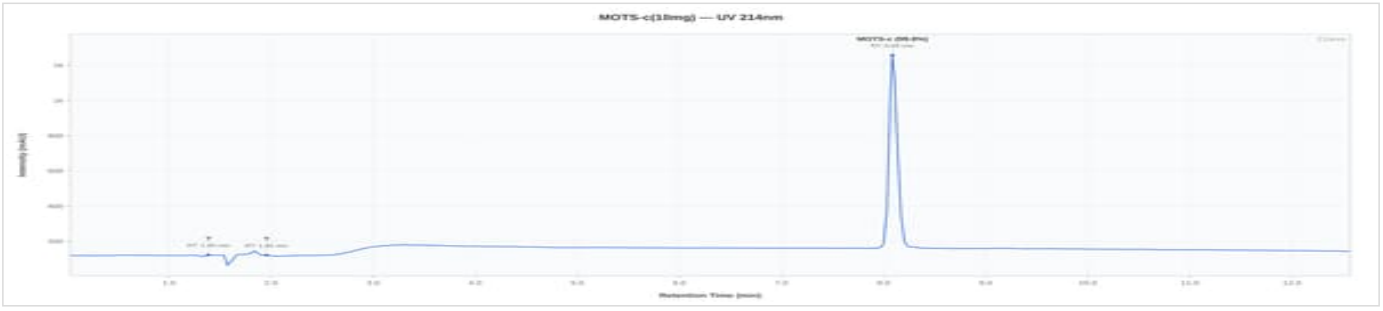



*MOTS-C 10mg - MTC0003*

### Full QC Panel

| Analyte | Specification | Result | Unit | Status |
|---|---|---|---|---|
| **Peptide Purity (HPLC)** | >= 95.0% | **99.81%** | % | **PASS** |
| **Net Peptide Content** | Report Only | **10.62** | mg | N/A |
| **Identity (HPLC-RTM)** | MOTS-c | **Confirmed** | - | **PASS** |
| **Fentanyl Screen** | Immunoassay, 50 ng/mL cutoff | **Not Detected** | - | **PASS** |

### HPLC Chromatogram




*MOTS-C 10mg - MTC0003 : UV Chromatogram*

### Heavy Metals Analysis (ICP-MS)

| Test | Specification | Result | Status |
|---|---|---|---|
| **Arsenic (As)** | NMT 1.5 ppm | ND | **PASS** |
| **Cadmium (Cd)** | NMT 0.5 ppm | ND | **PASS** |
| **Lead (Pb)** | NMT 1.0 ppm | ND | **PASS** |
| **Mercury (Hg)** | NMT 1.5 ppm | ND | **PASS** |
| **Chromium (Cr)** | NMT 10.0 ppm | ND | **PASS** |

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**Dr. Greg Kalyuzhny**
Lab Director
7/30/2026

COA #: **COA-2026-TD8WMV**
Access Code: **KJ3X6QD5**
Verify: portal.ils-lab.com/verify/4V8yE8TEkkJ7njtN
Issued: 7/30/2026

## 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.*

**Certificate Change History** **ILS QA**

**Revision 1 – reissued October 30, 2026**
Certificate statement updated. Test results are unchanged. Supersedes the original issued 07/30/2026.

## 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.

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Quality System: ILS Laboratories operates an ISO/IEC 17025 quality management system. This certificate relates only to the sample(s) tested.