

## Semax - 10mg

Tested for: AminoBay LLC  
aminobay.com

PASS

COA #: COA-2026-STQDK  
Lot Number: SMX0268  
Accession #: ACC-XV9LHQ  
Labeled Content: 10mg

Method: Full QC Panel  
Analysis Date: 2026-07-09  
Appearance: White lyophilized powder  
Sample Matrix: Lyophilized  
Date Received: 2026-07-05



Scan to verify at [zolog.com](https://zolog.com)  
Access Code: XGQ3XPU

Identity  
**Semax**

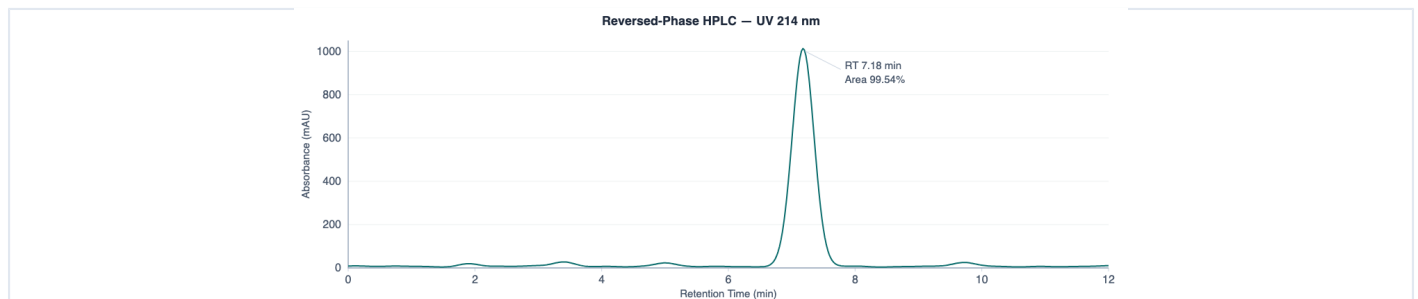
Peptide Purity  
**99.54%**

**Fentanyl Free**

### Purity & Quant (HPLC)

| Analyte             | Specification                | Result       | Unit | Status |
|---------------------|------------------------------|--------------|------|--------|
| Purity (HPLC)       | >= 95.0%                     | 99.54%       | %    | PASS   |
| Net Peptide Content | Report Only                  | 10.71        | mg   | N/A    |
| Identity (ID)       | Semax                        | Confirmed    | -    | PASS   |
| Fentanyl Screen     | Immunoassay, 50 ng/mL cutoff | Not Detected | -    | PASS   |

### HPLC Chromatogram



Representative chromatogram, closest to batch mean purity.

### HPLC Conformity Testing Results (7 samples tested)

| Sample        | Purity | NPC    | ID        | Result |
|---------------|--------|--------|-----------|--------|
| Dedicated V0  | 99.54% | 10.65  | Confirmed | PASS   |
| Conformity V1 | 99.57% | 10.64  | Confirmed | PASS   |
| Conformity V2 | 99.57% | 10.64  | Confirmed | PASS   |
| Conformity V3 | 99.56% | 10.65  | Confirmed | PASS   |
| Conformity V4 | 99.56% | 10.65  | Confirmed | PASS   |
| Conformity V5 | 99.54% | 10.65  | Confirmed | PASS   |
| Conformity V6 | 99.55% | 10.64  | Confirmed | PASS   |
| Mean          | 99.56% | 0.0118 | —         | —      |
| Std Dev       | 10.65  | 0.0049 | —         | —      |

*Joost Bakker*

**Dr. Joost Bakker**  
Laboratory Director  
2026-07-10

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Verify: <https://zolog.com/verify/ZL4DR96EUDAM3>  
Issued: 2026-07-10

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 $\leq 85\text{EU}$ ) | Report Result | < 0.05 EU/mL | Reported |

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.

Notes & Methodology

- Peptide identity confirmed by HPLC retention-time comparison against a reference standard.
- Purity determined by RP-HPLC area normalization at 214 nm; the value is the target peptide as a percentage of all peptide-related peaks.
- Elemental impurities (As, Cd, Cr, Hg, Pb) screened by ICP-MS.
- Bacterial endotoxin measured by the LAL kinetic method.
- Sterility assessed by a PCR-based screen.

For Research Use Only. Not for human or veterinary use.



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