Customer:
OROS Research

EA Sample ID: 26EA1021-032
Sample Name: Semax N-Acetyl Amidate Spray 25mg
Sample Type: Liquid
Batch/Lot: OR-SSMX25-1026-B2

Date Received:
10/22/2026
Date Completed:
10/29/2026

ETHOS ANALYTICS

# CERTIFICATE OF ANALYSIS

## Summary of Results

| Analysis Type | Method | Date Tested | Status |
|---|---|---|---|
| Semax | HPLC | 10/25/2026 | Pass |
| Bacterial Endotoxins | USP <85> | 10/29/2026 | Pass |
| Residual Solvents | USP <467> | 10/29/2026 | Pass |
| Fentanyl | USP <2251> | 10/29/2026 | Pass |
| Heavy Metals | ICP-MS | 10/24/2026 | Pass |
| Microbiological | Petrifilm/qPCR | 10/25/2026 | Pass |




Serving Size: N/A

## Label Claim Profile

| Analyte | Result | Specification | LOD |
|---|---|---|---|
| **Semax** | T1 = 25.89mg/bottle | 25mg/bottle | 0.01% |
| **Semax** | T2 = 25.82mg/bottle | 25mg/bottle | 0.01% |
| **Average** | 25.86 mg/bottle | 25mg/bottle | N/A |
| **Identity of the analyte was confirmed by retention time concordance with a certified reference standard, per USP <621>.** | | | |
| **Bacterial Endotoxins (Gel-Clot: 1:40 Dilution)** | <5 EU/ml | <5 EU/ml | λ = 0.125 EU/mL |
| **Fentanyl** | Bottle 1 = Not Detected | <LOD | 10ppm |
| **Fentanyl** | Bottle 2 = Not Detected | <LOD | 10ppm |
| **Acetone** | <LOD | <5000ppm | 500ppm |
| **Acetonitrile** | <LOD | <410ppm | 50ppm |
| **Benzene** | <LOD | <2ppm | 0.1ppm |
| **Chloroform** | <LOD | <60ppm | 5ppm |
| **Cyclohexane** | <LOD | <3880ppm | 50ppm |
| **Methanol** | <LOD | <3000ppm | 50ppm |
| **DMF (N,N-Dimethylformamide)** | <LOD | <880ppm | 50ppm |
| **Dichloromethane (Methylene Chloride)** | <LOD | <600ppm | 50ppm |
| **Diethyl Ether (Ethyl Ether)** | <LOD | <5000ppm | 500ppm |
| **Isopropanol (2-Propanol)** | <LOD | <5000ppm | 500ppm |
| **Hexanes** | <LOD | <290ppm | 5ppm |
| **Ethanol** | <LOD | <5000ppm | 500ppm |
| **THF (Tetrahydrofuran)** | <LOD | <720ppm | 50ppm |
| **TFA (Trifluoroacetic acid)** | <LOD | Report Only | 50ppm |

NOTES: Multiple bottles were independently tested to evaluate batch consistency and unit-to-unit variability.

LOD = LIMIT OF DETECTION; LOQ = LIMIT OF QUANTIFICATION

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Noel Samsum
Laboratory Director
29-Oct-2026

The sample analyzed was inspected and is free from visual mold, mildew, and foreign matter. The testing procedures, equipment calibration, and maintenance are all in accordance with ISO/IEC 17025:2017 standards. The presented report is only applicable to the sample specified above and may not be applied to any similar or identical products. Reports are prohibited from being reproduced with alterations of any kind.

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## Heavy Metal Analysis (USP <233>)

| Analyte | Result (mcg/ml) | LOQ (ppm) | LOD (ppm) | Limit (mcg/ml) | Pass/Fail |
|---|---|---|---|---|---|
| Arsenic | <LOD | 0.010 | 0.005 | 0.5 | Pass |
| Cadmium | <LOD | 0.010 | 0.005 | 0.1 | Pass |
| Lead | <LOD | 0.010 | 0.005 | 0.5 | Pass |
| Mercury | <LOD | 0.010 | 0.005 | 0.1 | Pass |

## Microbiological Analysis (USP <61>, USP <62>)

| Microbe | Result | Limit | Pass/Fail |
|---|---|---|---|
| Total Aerobic Plate | <10 CFU/g | <100 CFU/g | Pass |
| Coliform | <10 CFU/g | <10 CFU/g | Pass |
| Bile-Tolerant Gram-Negative Bacteria | <10 CFU/g | <10 CFU/g | Pass |
| Yeast and Mold | <10 CFU/g | <10 CFU/g | Pass |
| Escherichia Coli | Negative/1g | Negative/1g | Pass |
| Salmonella | Negative/1g | Negative/1g | Pass |
| Staphylococcus Aureus | Negative/1g | Negative/1g | Pass |

NOTES:

CFU = Colony Forming Unit
NS = Not Specified
NT = Not Tested

LOQ = Limit of Quantification
LOD = Limit of Detection

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