Customer:
Amino Club

EA Sample ID: 26EA1026-068
Sample Name: Pinealon 10MG
Sample Type: Powder
Batch/Lot: PIN0002

Date Received:
10/26/2026
Date Completed:
11/09/2026

ETHOS ANALYTICS

# CERTIFICATE OF ANALYSIS

## Summary of Results

| Analysis Type | Method | Date Tested | Status |
|---|---|---|---|
| Pinealon | HPLC | 10/27/2026 | Pass |
| Bacterial Endotoxins | USP <85> | 10/31/2026 | Pass |
| Traditional Sterility | USP <71> | 11/09/2026 | Pass |
| Fentanyl | USP <2251> | 10/27/2026 | Pass |
| Residual Solvents | USP <467> | 10/31/2026 | Pass |
| Heavy Metals | ICP-MS | 10/29/2026 | Pass |
| Microbiological | Petrifilm/qPCR | 10/30/2026 | Pass |




## Label Claim Profile

| Analyte | Result | Specification | LOD |
|---|---|---|---|
| **Pinealon** | Vial 1 = 10.42mg/vial | 10mg/vial | 0.01% |
| **Pinealon** | Vial 2 = 10.47mg/vial | 10mg/vial | 0.01% |
| **Pinealon** | Vial 3 = 10.53mg/vial | 10mg/vial | 0.01% |
| **Identity of the analyte was confirmed by retention time concordance with a certified reference standard, per USP <621>.** | | | |
| **Chromatographic Purity (3 Vials)** | Vials 1,2,3 = >99% | >99% | 0.01% |
| **Bacterial Endotoxins (Gel-Clot: 1:10 Dilution)** | <1.25 EU/ml | <5 EU/ml | λ = 0.125 EU/mL |
| **Traditional 14-Day USP <71> Sterility (3 Vials)** | Pass - Vials 1,2 3 = No Microbial Growth | No Microbial Growth | N/A |
| **Fentanyl (3 Vials)** | Vials 1,2,3 = Not Detected | <LOD | 10ppm |
| **Container Closure Integrity (Dye Ingress) USP <1207>** | No dye ingress observed | No dye ingress | N/A |
| **Solubility (Visual per USP General Notices 5.30)** | Clear, colorless solution; fully dissolved | Freely soluble in Water; clear and free of visible particulates | N/A |
| **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: Lyophilized samples may include acceptable salts, sugars, or buffering agents added to improve solubility and stability. These excipients are non-chromophoric, typically not detected by HPLC, and are not considered impurities. Three vials were independently tested to evaluate batch consistency and vial-to-vial variability.

LOD = LIMIT OF DETECTION; LOQ = LIMIT OF QUANTIFICATION

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**Noel Samsum**
**Laboratory Director**
**9-Nov-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/vial) | LOQ (ppm) | LOD (ppm) | Limit (mcg/g) | Pass/Fail |
|---|---|---|---|---|---|
| **Arsenic** | **<LOQ** | 0.010 | 0.005 | 0.5 | Pass |
| **Cadmium** | **<LOQ** | 0.010 | 0.005 | 0.1 | Pass |
| **Lead** | **0.001** | 0.010 | 0.005 | 0.5 | Pass |
| **Mercury** | **<LOQ** | 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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