



**Certificate of Analysis**

R&D

Client Information:

**Virag Bioscience**  
1601 N. Powerline Rd  
Pompano Beach, FL 33069

Batch # 2023-02-06  
Batch Date: 2023-02-06  
Extracted From: Hemp

Test Reg State: Florida

Order # VIR230206-010002  
Order Date: 2023-02-06  
Sample # AAEB628

Sampling Date: 2023-02-07  
Lab Batch Date: 2023-02-07  
Orig. Completion Date: 2023-02-10

Initial Gross Weight: 93.435 g  
Net Weight: 90.435 g

Number of Units: 1  
Net Weight per Unit: 9043.500 mg

Statement of Amendment: Updated Photo



Product Image

|                                 |                                       |                                      |                          |                          |
|---------------------------------|---------------------------------------|--------------------------------------|--------------------------|--------------------------|
| <b>Potency Tested</b>           | <b>Terpenes Tested</b>                | <b>Heavy Metals Passed</b>           | <b>Mycotoxins Passed</b> | <b>Pesticides Passed</b> |
| <b>Residual Solvents Passed</b> | <b>Pathogenic Microbiology Passed</b> | <b>Listeria Monocytogenes Passed</b> |                          |                          |

**Potency 10**  
Specimen Weight: 1504.300 mg

**Tested**  
SOP13.001 (LCUV)

Pieces For Panel: 10

| Analyte          | Dilution (1:n) | LOD (%) | LOQ (%) | Result (mg/g) | (%)    |
|------------------|----------------|---------|---------|---------------|--------|
| CBD              | 10.000         | 5.40E-5 | 0.0015  | 4.8710        | 0.4871 |
| Delta-9 THC      | 10.000         | 1.30E-5 | 0.0015  | 2.2190        | 0.2219 |
| CBC              | 10.000         | 1.80E-5 | 0.0015  | 0.5080        | 0.0508 |
| CBG              | 10.000         | 2.48E-4 | 0.0015  | 0.2770        | 0.0277 |
| CBDV             | 10.000         | 6.50E-5 | 0.0015  | 0.0880        | 0.0088 |
| CBN              | 10.000         | 1.40E-5 | 0.0015  | 0.0510        | 0.0051 |
| THCV             | 10.000         | 7.00E-6 | 0.0015  | 0.0260        | 0.0026 |
| CBDA             | 10.000         | 1.00E-5 | 0.0015  | <LOQ          | <LOQ   |
| CBGA             | 10.000         | 8.00E-5 | 0.0015  | <LOQ          | <LOQ   |
| THCA-A           | 10.000         | 3.20E-5 | 0.0015  | <LOQ          | <LOQ   |
| Total Active CBD | 10.000         |         |         | 4.871         | 0.487  |
| Total Active THC | 10.000         |         |         | 2.219         | 0.222  |

**Potency Summary**

|   |  |
|---|--|
| <b>Total Active THC</b><br>0.222% 20.070mg  | <b>Total Active CBD</b><br>0.487% 44.050mg   |
| <b>Total CBG</b><br>0.028% 2.530mg          | <b>Total CBN</b><br>0.005% 0.450mg           |
| <b>Other Cannabinoids</b><br>0.062% 5.610mg | <b>Total Cannabinoids</b><br>0.804% 72.710mg |

**Terpenes Summary**

| Analyte                       | Result (mg/g) | (%) |
|-------------------------------|---------------|-----|
| <b>Total Terpenes: 0.000%</b> |               |     |

Detailed Terpenes Analysis is on the following page

Aixia Sun Lab Director/Principal Scientist  
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Definitions and Abbreviations used in this report: Total Active CBD = CBD + (CBD-A \* 0.877), \*Total CBDV = CBDV + (CBDVA \* 0.87), Total Active THC = THCA-A \* 0.877 + Delta 9 THC, Total THC = THC + (THCVA \* 0.87), CBG Total = (CBGA \* 0.877) + CBG, CBN Total = (CBNA \* 0.877) + CBN, Total CBC = CBC + (CBCA \* 0.877), Total THC-O-Acetate = Delta 8 THC-O-Acetate + Delta 9 THC-O-Acetate, Total THCP = Delta8-THCP + Delta9-THCP, Other Cannabinoids Total = Total Cannabinoids - All the listed cannabinoids on the summary section, Total Detected Cannabinoids = Delta6a10a-THC + Delta8-THC + Total CBN + CBT + CBE + Delta8-THCV + Total CBG + Total CBD + Total THC + CBL + Total THC + Total CBC + Total CBDV + Delta10-THC + Total THC-O-Acetate + Total THCP. (mg/ml) = Milligrams per Milliliter, LOQ = Limit of Quantitation, LOD = Limit of Detection, Dilution = Dilution Factor (ppb) = Parts per Billion, (%) = Percent, (cfu/g) = Colony Forming Unit per Gram (cfu/g) = Colony Forming Unit per Gram, LOD = Limit of Detection, (µg/g) = Microgram per Gram (ppm) = Parts per Million, (ppm) = (µg/g), (aw) = Water Activity, (mg/Kg) = Milligram per Kilogram, ACS uses simple acceptance criteria. Passed - Analyte/microbe is not detected or is at the level below the action limit per FL rule 64ER20-39, 5K-4.036, 5K-4.034. Failed - Analyte/microbe is at the level that equal or above the action limit per FL rule 64ER20-39, 5K-4.036, 5K-4.034 Sample not received via laboratory sampling. Revised report- see statement of amendment above.

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Test Reg State: Florida

Order # VIR230206-010002  
Order Date: 2023-02-06  
Sample # AAEB628

Sampling Date: 2023-02-07  
Lab Batch Date: 2023-02-07  
Orig. Completion Date: 2023-02-10

Initial Gross Weight: 93.435 g  
Net Weight: 90.435 g

Number of Units: 1  
Net Weight per Unit: 9043.500 mg

**Terpenes**  
Specimen Weight: 1504.300 mg

**Tested**  
SOP13.045 (GC/GCMS)

Dilution Factor: 20.000

| Analyte             | LOQ (%) | Result (mg/g) | (%)  | Analyte             | LOQ (%) | Result (mg/g) | (%)  |
|---------------------|---------|---------------|------|---------------------|---------|---------------|------|
| (+)-Cedrol          | 0.002   | <LOQ          | <LOQ | Fenchyl Alcohol     | 0.002   | <LOQ          | <LOQ |
| (R)-(+)-Limonene    | 0.002   | <LOQ          | <LOQ | Gamma-Terpinene     | 0.002   | <LOQ          | <LOQ |
| 3-Carene            | 0.002   | <LOQ          | <LOQ | Geraniol            | 0.002   | <LOQ          | <LOQ |
| alpha-Bisabolol     | 0.002   | <LOQ          | <LOQ | Geranyl acetate     | 0.002   | <LOQ          | <LOQ |
| alpha-Cedrene       | 0.002   | <LOQ          | <LOQ | Guaiol              | 0.002   | <LOQ          | <LOQ |
| alpha-Humulene      | 0.002   | <LOQ          | <LOQ | Hexahydrothymol     | 0.002   | <LOQ          | <LOQ |
| alpha-Phellandrene  | 0.002   | <LOQ          | <LOQ | Isoborneol          | 0.002   | <LOQ          | <LOQ |
| alpha-Pinene        | 0.002   | <LOQ          | <LOQ | Isopulegol          | 0.002   | <LOQ          | <LOQ |
| alpha-Terpinene     | 0.002   | <LOQ          | <LOQ | Linalool            | 0.002   | <LOQ          | <LOQ |
| beta-Myrcene        | 0.002   | <LOQ          | <LOQ | Nerol               | 0.002   | <LOQ          | <LOQ |
| beta-Pinene         | 0.002   | <LOQ          | <LOQ | Ocimene             | 0.00033 | <LOQ          | <LOQ |
| Borneol             | 0.004   | <LOQ          | <LOQ | Pulegone            | 0.002   | <LOQ          | <LOQ |
| Camphene            | 0.002   | <LOQ          | <LOQ | Sabinene            | 0.002   | <LOQ          | <LOQ |
| Camphors            | 0.006   | <LOQ          | <LOQ | Sabinene Hydrate    | 0.002   | <LOQ          | <LOQ |
| Caryophyllene oxide | 0.002   | <LOQ          | <LOQ | Terpinolene         | 0.002   | <LOQ          | <LOQ |
| cis-Nerolidol       | 0.002   | <LOQ          | <LOQ | Total Terpeneol     | 0.00126 | <LOQ          | <LOQ |
| Eucalyptol          | 0.002   | <LOQ          | <LOQ | trans-Caryophyllene | 0.002   | <LOQ          | <LOQ |
| Farnesene           | 0.002   | <LOQ          | <LOQ | trans-Nerolidol     | 0.002   | <LOQ          | <LOQ |
| Fenchone            | 0.002   | <LOQ          | <LOQ | Valencene           | 0.002   | <LOQ          | <LOQ |

**Listeria Monocytogenes**  
Specimen Weight: 987.300 mg

**Passed**  
SOP13.032 (qPCR)

Dilution Factor: 1.000

| Analyte                | Action Level (cfu/g) | Result        |
|------------------------|----------------------|---------------|
| Listeria Monocytogenes | 1                    | Absence in 1g |

**Pathogenic Microbiology SAE (MicroArray)**  
Specimen Weight: 1024.300 mg

**Passed**  
SOP13.019 (Micro Array)

Dilution Factor: 1.000

| Analyte               | Result (cfu/g) | Analyte             | Result (cfu/g) |
|-----------------------|----------------|---------------------|----------------|
| Aspergillus flavus    | Absence in 1g  | Aspergillus terreus | Absence in 1g  |
| Aspergillus fumigatus | Absence in 1g  | Salmonella          | Absence in 1g  |
| Aspergillus niger     | Absence in 1g  | STEC E. Coli        | Absence in 1g  |

*Aixia Sun*  
Aixia Sun Lab Director/Principal Scientist  
D.H.Sc., M.Sc., B.Sc., MT (AAB)

Definitions are found on page 1

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Lab Batch Date: 2023-02-07  
Orig. Completion Date: 2023-02-10

Initial Gross Weight: 93.435 g  
Net Weight: 90.435 g

Number of Units: 1  
Net Weight per Unit: 9043.500 mg



**Heavy Metals**

Specimen Weight: 251.450 mg

**Passed**  
SOP13.048 (ICP-MS)

Dilution Factor: 198

| Analyte      | LOD (ppb) | LOQ (ppb) | Action Level (ppb) | Result (ppb) | Analyte      | LOD (ppb) | LOQ (ppb) | Action Level (ppb) | Result (ppb) |
|--------------|-----------|-----------|--------------------|--------------|--------------|-----------|-----------|--------------------|--------------|
| Arsenic (As) | 4.83      | 100       | 1500               | <LOQ         | Lead (Pb)    | 11.76     | 100       | 500                | <LOQ         |
| Cadmium (Cd) | .64       | 100       | 500                | <LOQ         | Mercury (Hg) | .58       | 100       | 3000               | <LOQ         |



**Mycotoxins**

Specimen Weight: 262.500 mg

**Passed**  
SOP13.007 (LCMS)

Dilution Factor: 5.710

| Analyte      | LOD (ppb) | LOQ (ppb) | Action Level (ppb) | Result (ppb) | Analyte      | LOD (ppb) | LOQ (ppb) | Action Level (ppb) | Result (ppb) |
|--------------|-----------|-----------|--------------------|--------------|--------------|-----------|-----------|--------------------|--------------|
| Aflatoxin B1 | 3.0400E-1 | 6         | 20                 | <LOQ         | Aflatoxin G2 | 2.7100E-1 | 6         | 20                 | <LOQ         |
| Aflatoxin B2 | 7.7000E-2 | 6         | 20                 | <LOQ         | Ochratoxin A | 7.5400E-1 | 3.8       | 20                 | <LOQ         |
| Aflatoxin G1 | 3.0400E-1 | 6         | 20                 | <LOQ         |              |           |           |                    |              |



**Residual Solvents - FL (CBD)**

Specimen Weight: 12.500 mg

**Passed**  
SOP13.039 (GCMS)

Dilution Factor: 1.000

| Analyte            | LOD (ppm) | LOQ (ppm) | Action Level (ppm) | Result (ppm) | Analyte            | LOD (ppm) | LOQ (ppm) | Action Level (ppm) | Result (ppm) |
|--------------------|-----------|-----------|--------------------|--------------|--------------------|-----------|-----------|--------------------|--------------|
| 1,1-Dichloroethene | 0.0094    | 0.16      | 8                  | <LOQ         | Heptane            | 0.0013    | 1.39      | 5000               | <LOQ         |
| 1,2-Dichloroethene | 0.0003    | 0.04      | 5                  | <LOQ         | Hexane             | 0.068     | 1.17      | 290                | <LOQ         |
| Acetone            | 0.015     | 2.08      | 5000               | <LOQ         | Isopropyl alcohol  | 0.0048    | 1.39      | 500                | <LOQ         |
| Acetonitrile       | 0.06      | 1.17      | 410                | <LOQ         | Methanol           | 0.0005    | 0.69      | 3000               | <LOQ         |
| Benzene            | 0.0002    | 0.02      | 2                  | <LOQ         | Methylene chloride | 0.0029    | 2.43      | 600                | <LOQ         |
| Butanes            | 0.4167    | 2.5       | 2000               | <LOQ         | Pentane            | 0.037     | 2.08      | 5000               | <LOQ         |
| Chloroform         | 0.0001    | 0.04      | 60                 | <LOQ         | Propane            | 0.031     | 5.83      | 2100               | <LOQ         |
| Ethanol            | 0.0021    | 2.78      | 5000               | 173.326      | Toluene            | 0.0009    | 2.92      | 890                | <LOQ         |
| Ethyl Acetate      | 0.0012    | 1.11      | 5000               | <LOQ         | Total Xylenes      | 0.0001    | 2.92      | 2170               | <LOQ         |
| Ethyl Ether        | 0.0049    | 1.39      | 5000               | <LOQ         | Trichloroethylene  | 0.0014    | 0.49      | 80                 | <LOQ         |
| Ethylene Oxide     | 0.0038    | 0.1       | 5                  | <LOQ         |                    |           |           |                    |              |

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Net Weight: 90.435 g

Number of Units: 1  
Net Weight per Unit: 9043.500 mg

**Pesticides FL**  
Specimen Weight: 262.500 mg

**Passed**

SOP13.007 (LCMS/GCMS)

Dilution Factor: 5.710

| Analyte               | LOD (ppb) | LOQ (ppb) | Action Level (ppb) | Result (ppb) | Analyte                 | LOD (ppb) | LOQ (ppb) | Action Level (ppb) | Result (ppb) |
|-----------------------|-----------|-----------|--------------------|--------------|-------------------------|-----------|-----------|--------------------|--------------|
| Abamectin             | 2.8800E-1 | 28.23     | 300                | <LOQ         | Fludioxonil             | 1.7400E+0 | 48        | 3000               | <LOQ         |
| Acephate              | 2.3000E-2 | 30        | 3000               | <LOQ         | Hexythiazox             | 4.9000E-2 | 30        | 2000               | <LOQ         |
| Acequinocyl           | 9.5640E+0 | 48        | 2000               | <LOQ         | Imazalil                | 2.4800E-1 | 30        | 100                | <LOQ         |
| Acetamiprid           | 5.2000E-2 | 30        | 3000               | <LOQ         | Imidacloprid            | 9.4000E-2 | 30        | 3000               | <LOQ         |
| Aldicarb              | 2.6000E-2 | 30        | 100                | <LOQ         | Kresoxim Methyl         | 4.2000E-2 | 30        | 1000               | <LOQ         |
| Azoxystrobin          | 8.1000E-2 | 10        | 3000               | <LOQ         | Malathion               | 8.2000E-2 | 30        | 2000               | <LOQ         |
| Bifenazate            | 1.4150E+0 | 30        | 3000               | <LOQ         | Metalaxyl               | 8.1000E-2 | 10        | 3000               | <LOQ         |
| Bifenthrin            | 4.3000E-2 | 30        | 500                | <LOQ         | Methiocarb              | 3.2000E-2 | 30        | 100                | <LOQ         |
| Boscalid              | 5.5000E-2 | 10        | 3000               | <LOQ         | Methomyl                | 2.2000E-2 | 30        | 100                | <LOQ         |
| Captan                | 6.1200E+0 | 30        | 3000               | <LOQ         | methyl-Parathion        | 1.7100E+0 | 10        | 100                | <LOQ         |
| Carbaryl              | 2.2000E-2 | 10        | 500                | <LOQ         | Mevinphos               | 2.1500E+0 | 10        | 100                | <LOQ         |
| Carbofuran            | 3.4000E-2 | 100       | 100                | <LOQ         | Myclobutanil            | 1.0290E+0 | 30        | 3000               | <LOQ         |
| Chlorantraniliprole   | 3.3000E-2 | 10        | 3000               | <LOQ         | Naled                   | 9.5000E-2 | 30        | 500                | <LOQ         |
| Chlordane             | 1.0000E+1 | 10        | 100                | <LOQ         | Oxamyl                  | 2.5000E-2 | 30        | 500                | <LOQ         |
| Chlorfenapyr          | 3.4000E-2 | 30        | 100                | <LOQ         | Paclbutrazol            | 6.5000E-2 | 30        | 100                | <LOQ         |
| Chloromequat Chloride | 1.0800E-1 | 10        | 3000               | <LOQ         | Pentachloronitrobenzene | 1.3200E+0 | 10        | 200                | <LOQ         |
| Chlorpyrifos          | 3.5000E-2 | 30        | 100                | <LOQ         | Permethrin              | 3.4300E-1 | 30        | 1000               | <LOQ         |
| Clofentezine          | 1.1900E-1 | 30        | 500                | <LOQ         | Phosmet                 | 8.2000E-2 | 30        | 200                | <LOQ         |
| Coumaphos             | 3.7700E+0 | 48        | 100                | <LOQ         | Piperonylbutoxide       | 2.9000E-2 | 30        | 3000               | <LOQ         |
| Cyfluthrin            | 3.1100E+0 | 30        | 1000               | <LOQ         | Prallethrin             | 7.9800E-1 | 30        | 400                | <LOQ         |
| Cypermethrin          | 1.4490E+0 | 30        | 1000               | <LOQ         | Propiconazole           | 7.0000E-2 | 30        | 1000               | <LOQ         |
| Daminozide            | 8.8500E-1 | 30        | 100                | <LOQ         | Propoxur                | 4.6000E-2 | 30        | 100                | <LOQ         |
| Diazinon              | 4.4000E-2 | 30        | 200                | <LOQ         | Pyrethrins              | 2.3593E+1 | 30        | 1000               | <LOQ         |
| Dichlorvos            | 2.1820E+0 | 30        | 100                | <LOQ         | Pyridaben               | 3.2000E-2 | 30        | 3000               | <LOQ         |
| Dimethoate            | 2.1000E-2 | 30        | 100                | <LOQ         | Spinetoram              | 8.0000E-2 | 10        | 3000               | <LOQ         |
| Dimethomorph          | 5.8300E+0 | 48        | 3000               | <LOQ         | Spinosad                | 8.8000E-2 | 30        | 3000               | <LOQ         |
| Ethoprophos           | 3.6000E-1 | 30        | 100                | <LOQ         | Spiromesifen            | 2.6100E-1 | 30        | 3000               | <LOQ         |
| Etofenprox            | 1.1600E-1 | 30        | 100                | <LOQ         | Spirotetramat           | 8.9000E-2 | 30        | 3000               | <LOQ         |
| Etoxazole             | 9.5000E-2 | 30        | 1500               | <LOQ         | Spiroxamine             | 1.3100E-1 | 30        | 100                | <LOQ         |
| Fenhexamid            | 5.1000E-1 | 10        | 3000               | <LOQ         | Tebuconazole            | 6.7000E-2 | 30        | 1000               | <LOQ         |
| Fenoxycarb            | 1.0700E-1 | 30        | 100                | <LOQ         | Thiacloprid             | 6.4000E-2 | 30        | 100                | <LOQ         |
| Fenpyroximate         | 1.3800E-1 | 30        | 2000               | <LOQ         | Thiamethoxam            | 5.0000E-2 | 30        | 1000               | <LOQ         |
| Fipronil              | 1.0700E-1 | 30        | 100                | <LOQ         | Trifloxystrobin         | 3.7000E-2 | 30        | 3000               | <LOQ         |
| Fonicamid             | 5.1700E-1 | 30        | 2000               | <LOQ         |                         |           |           |                    |              |

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