F.A.S.T. LABORATORIES/RESEARCH

ACCREDITED CERTIFICATE #4473.01

ASA PFC Laboratory

Analyzed on behalf of: RVR

## SUMMARY OF ANALYSIS (SAMPLE ID: SA33464)

| | | | |
|---|---|---|---|
| **Testing Location:** | **Customer ID:** 2161 | **Order ID:** OR10173 | **Sample Type:** Primary |
| Arkansas | River Valley Relief Cultivation | **Lot Number:** | **Matrix:** Flower |
| 232 S. Broadview St. | 5601 Old Greenwood Rd Suite C | M00065C13137006994 | **Mass:** 12g |
| Greenbrier, AR 72058 | Fort Smith, AR 72903 | **Production Run:** | **Date Collected:** 11/17/2022 |
| License: ADH 113 | License: 00065C | 6013H20221029CDG5 | **Date Received:** 11/18/2022 |
| **Cultivar (Strain) or Sample Description:** Chem Dawg | | | **Date Completed:** 11/22/2022 |

*This page is simply a summary of the analysis performed. For analytical details, please consult the individual Certificate(s) of Analysis for each of the specific test(s) performed. All contaminant action levels are referenced from the State of Arkansas MMJ testing guidelines.

| Moisture Content (%) | Water Activity (aw) | PASS/FAIL |
|---|---|---|
| 13.1 | 0.552 @ 24.4ºC | PASS |

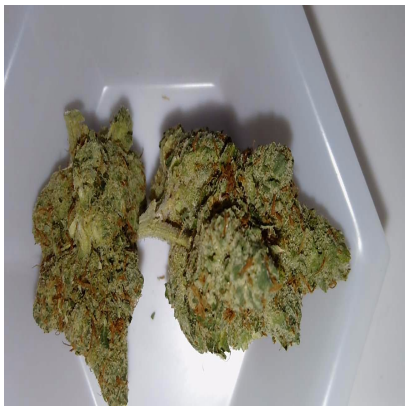
Moisture content/water activity action levels are referenced from the State of Arkansas MMJ testing guidelines.
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

| Cannabinoids (Top 3) | (%) | mg/g |
|---|---|---|
| THCA | 21.1 | 211 |
| Δ9-THC | 0.977 | 9.77 |
| CBGA | 0.493 | 4.93 |
| TOTAL CBD | 0.0512 | 0.512 |
| TOTAL THC | 19.5 | 195 |
| TOTAL CANNABINOIDS | 23.4 | 234 |

| Terpenes (Top 5) | (%) | µg/g |
|---|---|---|
| β-Myrcene | 0.387 | 3870 |
| d-Limonene | 0.150 | 1500 |
| β-Caryophyllene | 0.133 | 1330 |
| Linalool | 0.0785 | 785 |
| α-Humulene | 0.0678 | 678 |
| TOTAL TERPENES | 1.00 | 10000 |

| Contaminants | PASS/FAIL |
|---|---|
| Heavy Metals: | PASS |
| Microbiology: | PASS |
| Pesticides: | PASS |

**Sample Picture Upon Receipt**



Scan the QR code to verify results.

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Kyle W. Felling, Ph.D.
Laboratory Director




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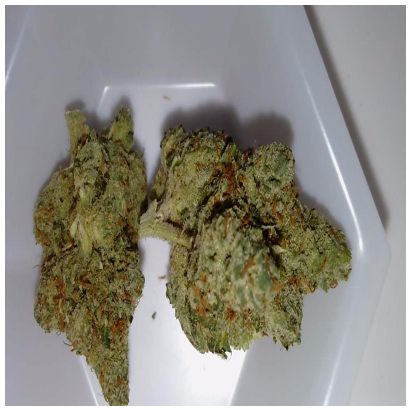
**Cultivar (Strain) or Sample Description:** Chem Dawg — **Date Completed:** 11/22/2022

## CANNABINOID (POTENCY) PROFILE (SOP: SOP-CANN-001)

**Analysis Date/Time:** 11/21/2022 1350 — **Method:** HPLC/DAD — **Moisture Content (%):** 13.1

**Analyst:** PW — **Instrument:** Agilent 1100 — **Water Activity (aw):** 0.552 @ 24.44ºC

| Cannabinoid | Result (%) | UM (+/-%) | Result (mg/g) | LOQ (mg/g) | Result (mg/mL) | Per Serving (mg) | Per Unit (mg) |
|---|---|---|---|---|---|---|---|
| CBC | - | - | - | 0.227 | - | - | - |
| CBCA | 0.184 | 0.0166 | 1.84 | 0.227 | - | 1.84 | 1.84 |
| CBD | - | - | - | 0.227 | - | - | - |
| CBDA | 0.0584 | 0.00525 | 0.584 | 0.227 | - | 0.584 | 0.584 |
| CBDV | - | - | - | 0.227 | - | - | - |
| CBDVA | - | - | - | 0.227 | - | - | - |
| CBG | 0.165 | 0.0149 | 1.65 | 0.227 | - | 1.65 | 1.65 |
| CBGA | 0.493 | 0.0444 | 4.93 | 0.227 | - | 4.93 | 4.93 |
| CBL | 0.0965 | 0.00868 | 0.965 | 0.227 | - | 0.965 | 0.965 |
| CBN | - | - | - | 0.227 | - | - | - |
| CBNA | 0.0867 | 0.00780 | 0.867 | 0.227 | - | 0.867 | 0.867 |
| Δ9-THC | 0.977 | 0.0879 | 9.77 | 0.227 | - | 9.77 | 9.77 |
| Δ8-THC | - | - | - | 0.227 | - | - | - |
| THCA | 21.1 | 1.90 | 211 | 0.227 | - | 211 | 211 |
| THCV | - | - | - | 0.227 | - | - | - |
| THCVA | 0.193 | 0.0174 | 1.93 | 0.227 | - | 1.93 | 1.93 |
| **TOTAL** | 23.4 | 2.10 | 234 | | - | 234 | 234 |
| **TOTAL CBC** | 0.162 | 0.0145 | 1.62 | | - | 1.62 | 1.62 |
| **TOTAL CBD** | 0.0512 | 0.00461 | 0.512 | | - | 0.512 | 0.512 |
| **TOTAL CBDV** | - | - | - | | - | - | - |
| **TOTAL CBG** | 0.599 | 0.0539 | 5.99 | | - | 5.99 | 5.99 |
| **TOTAL CBN** | 0.0759 | 0.00683 | 0.759 | | - | 0.759 | 0.759 |
| **TOTAL THC** | 19.5 | 1.75 | 195 | | - | 195 | 195 |
| **TOTAL THCV** | 0.167 | 0.0151 | 1.67 | | - | 1.67 | 1.67 |



**SERVING MASS (g):** 1.00
**SERVINGS/UNIT:** 1

"-" Not detected above LOD.

*Deviations from standard operating procedure:* None

*Recoveries for all analyte standards:* 90-110%
*Replicate Uncertainties:* <5% RSD, <20% RPD
*Sample/Reagent Blanks:* <RL for all analytes

Values for plant matter are adjusted for moisture content.

Total CBC = (CBCA x 0.877) + CBC
Total CBD = (CBDA x 0.877) + CBD
Total CBDV = (CBDVA x 0.867) + CBDV
Total CBG = (CBGA x 0.878) + CBG
Total CBN = (CBNA x 0.876) + CBN
Total THC = (THCA x 0.877) + Δ9-THC
Total THCV = (THCVA x 0.867) + THCV

Percentage results are reported by mass.

mg/g results are reported as mass component per mass material.

* CBCA, CBDVA, CBL, CBNA, and THCVA are in process of being added to our accreditation scope.

*Abbreviations:* DAD - Diode Array Detector, HPLC - High Pressure Liquid Chromatography, RL - Reporting Limit, RPD - Relative Percent Difference, RSD - Relative Standard Deviation, DET - Detected (less than LOQ), LOD - Limit of Detection, LOQ - Limit of Quantitation, UM - Measurement Uncertainty

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Kyle W. Felling, Ph.D.
Laboratory Director




www.FASTLaboratories.com

Analyzed on behalf of:

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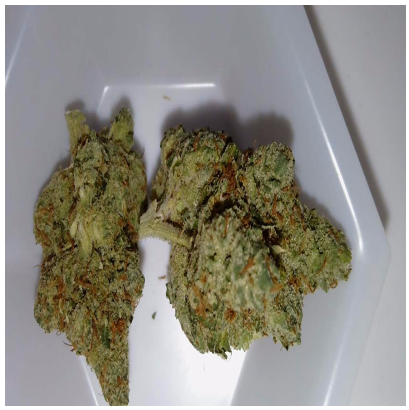
**Cultivar (Strain) or Sample Description:** Chem Dawg — **Date Completed:** 11/22/2022

## TERPENOID PROFILE

**Analysis Date/Time:**11/18/2022 2328 — **Method:** GC/MS — **Deviations from SOP:**

**Analyst:** KF — **Instrument:** Agilent 7890/5975 — None

| Terpene | Result (µg/g) | Result (%) |
|---|---|---|
| α-Bisabolol | 315 | 0.0315 |
| Camphene | 90.0 | 0.00900 |
| δ-3-Carene | - | - |
| β-Caryophyllene | 1330 | 0.133 |
| Caryophyllene oxide | - | - |
| p-Cymene | - | - |
| Eucalyptol | - | - |
| Geraniol | 182 | 0.0182 |
| Guaiol | - | - |
| α-Humulene | 678 | 0.0678 |
| Isopulegol | - | - |
| d-Limonene | 1500 | 0.150 |
| Linalool | 785 | 0.0785 |
| β-Myrcene | 3870 | 0.387 |
| cis-Nerolidol | - | - |
| trans-Nerolidol | 415 | 0.0415 |
| α-Ocimene | - | - |
| β-Ocimene | 138 | 0.0138 |
| α-Pinene | 178 | 0.0178 |
| β-Pinene | 398 | 0.0398 |
| α-Terpinene | - | - |
| γ-Terpinene | - | - |
| Terpinolene | 136 | 0.0136 |
| **TOTAL** | 10000 | 1.00 |



*Abbreviations:* GC - Gas Chromatography, MS - Mass Spectrometry, RL - Reporting Limit

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"-" Not detected above RL.

**Reporting Limit (µg/g):** 19.3

Kyle W. Felling, Ph.D.
Laboratory Director

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## PESTICIDES PROFILE (SOP: SOP-PEST-001)

**Analysis Date/Time:** 11/18/2022 2155 — **Method:** LC/MS/MS — **Deviations from SOP:**

**Analyst:** KF — **Instrument:** Shimadzu LC-8050 — None

| Pesticide | Result (µg/g) | LOD (µg/g) | LOQ (µg/g) | Action Level (µg/g) |
|---|---|---|---|---|
| Abamectin (71751-41-2) | - | 0.0193 | 0.155 | 0.5 |
| Acephate (30560-19-1) | - | 0.0193 | 0.155 | 0.4 |
| Acequinocyl (57960-19-7) | - | 0.0193 | 0.155 | 2 |
| Acetamiprid (135410-20-7) | - | 0.0193 | 0.155 | 0.2 |
| Aldicarb (116-06-3) | - | 0.0193 | 0.155 | 0.4 |
| Azoxystrobin (131860-33-8) | - | 0.0193 | 0.155 | 0.2 |
| Bifenazate (149877-41-8) | - | 0.0193 | 0.155 | 0.2 |
| Bifenthrin (82657-04-3) | - | 0.0193 | 0.155 | 0.2 |
| Boscalid (188425-85-6) | - | 0.0193 | 0.155 | 0.4 |
| Carbaryl (63-25-2) | - | 0.0193 | 0.155 | 0.2 |
| Carbofuran (1563-66-2) | - | 0.0193 | 0.155 | 0.2 |
| Chlorantraniliprole (800008-45-7) | - | 0.0193 | 0.155 | 0.2 |
| Chlorfenapyr (122453-73-0) | - | 0.0193 | 0.155 | 1 |
| Chlorpyrifos (2921-88-2) | - | 0.0193 | 0.155 | 0.2 |
| Clofentezine (74115-24-5) | - | 0.0193 | 0.155 | 0.2 |
| Cyfluthrin (68359-37-5) | - | 0.0193 | 0.155 | 1 |
| Cypermethrin (52315-07-8) | - | 0.0193 | 0.155 | 1 |
| Daminozide (1596-84-5) | - | 0.0193 | 0.155 | 1 |
| DDVP (62-73-7) | - | 0.0193 | 0.155 | 0.1 |
| Diazinon (333-41-5) | - | 0.0193 | 0.155 | 0.2 |
| Dimethoate (60-51-5) | - | 0.0193 | 0.155 | 0.2 |
| Ethoprophos (13194-48-4) | - | 0.0193 | 0.155 | 0.2 |
| Etofenprox (80844-07-1) | - | 0.0193 | 0.155 | 0.4 |
| Etoxazole (153233-91-1) | - | 0.0193 | 0.155 | 0.2 |
| Fenoxycarb (72490-01-8) | - | 0.0193 | 0.155 | 0.2 |
| (E)-Fenpyroximate (134098-61-6) | - | 0.0193 | 0.155 | 0.4 |
| Fipronil (120068-37-3) | - | 0.0193 | 0.155 | 0.4 |
| Flonicamid (158062-67-0) | - | 0.0193 | 0.155 | 1 |
| Fludioxinil (131341-86-1) | - | 0.0193 | 0.155 | 0.4 |
| Hexythiazox (78587-05-0) | - | 0.0193 | 0.155 | 1 |
| Imazalil (35554-44-0) | - | 0.0193 | 0.155 | 0.2 |
| Imidacloprid (138261-41-3) | - | 0.0193 | 0.155 | 0.4 |
| Kresoxim-methyl (143390-89-0) | - | 0.0193 | 0.155 | 0.4 |
| Malathion (121-75-5) | - | 0.0193 | 0.155 | 0.2 |
| Metalaxyl (57837-19-1) | - | 0.0193 | 0.155 | 0.2 |
| Methiocarb (2032-65-7) | - | 0.0193 | 0.155 | 0.2 |
| Methomyl (16752-77-5) | - | 0.0193 | 0.155 | 0.4 |
| Methyl parathion (298-0-0) | - | 0.0193 | 0.155 | 0.2 |
| MGK 264 (113-48-4) | - | 0.0193 | 0.155 | 0.2 |
| Myclobutanil (88671-89-0) | - | 0.0193 | 0.155 | 0.2 |
| Naled (300-76-5) | - | 0.0193 | 0.155 | 0.5 |
| Oxamyl (23135-22-0) | - | 0.0193 | 0.155 | 1 |
| Paclobutrazol (76738-62-0) | - | 0.0193 | 0.155 | 0.4 |
| Permethrins (52645-53-1) | - | 0.0193 | 0.155 | 0.2 |
| Phosmet (732-11-6) | - | 0.0193 | 0.155 | 0.2 |
| Piperonyl butoxide (51-03-6) | - | 0.0193 | 0.155 | 2 |
| Prallethrins (2331-36-9) | - | 0.0193 | 0.155 | 0.2 |
| Propiconazole (60207-90-1)) | - | 0.0193 | 0.155 | 0.4 |
| Propoxur (114-26-1) | - | 0.0193 | 0.155 | 0.2 |
| Pyrethrins (8003-34-7) | - | 0.0193 | 0.155 | 1 |
| Pyridaben (96489-71-3) | - | 0.0193 | 0.155 | 0.2 |
| Spinosad (168316-95-8) | - | 0.0193 | 0.155 | 0.2 |
| Spiromesifen (283594-90-1) | - | 0.0193 | 0.155 | 0.2 |
| Spirotetramat (203313-25-1) | - | 0.0193 | 0.155 | 0.2 |
| Spiroxamine (118134-30-8) | - | 0.0193 | 0.155 | 0.4 |
| Tebuconazole (80443-41-0) | - | 0.0193 | 0.155 | 0.4 |
| Thiacloprid (111988-49-9) | - | 0.0193 | 0.155 | 0.2 |
| Thiamethoxam (153719-23-4) | - | 0.0193 | 0.155 | 0.2 |
| Trifloxystrobin (141517-21-7) | - | 0.0193 | 0.155 | 0.2 |

**Color Key**

RESULT < AL

RESULT > AL

"DET" detected less than LOQ

"-" not detected above LOD

Permethrins measured as the cumulative residue of the *cis*- and *trans*- permethrin isomers.

Pyrethrins measured as the cumulative residue of the pyrethrin I, cinerin I, and jasmolin I isomers.

Action levels are referenced from the State of Arkansas MMJ testing guidelines.

A value of "-" for the action level means that analyte is not currently regulated by the regulations referenced above.

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*Abbreviations:* LC - Liquid Chromatography,MS - Mass Spectrometry, RL - Reporting Limit, AL - Action Level, CAS - Chemical Abstract Services, LOD - Limit of Detection, LOQ - Limit of Quantification

| Pesticide | Synonym(s) | Pesticide | Synonym(s) | Pesticide | Synonym(s) |
|---|---|---|---|---|---|
| Cyfluthrin | Baythroid | Myclobutanil | Systhane | Propiconazole | Tilt |
| DDVP | Dichlorvos | Naled | Dibrom | Propoxur | Baygon |
| Ethoprophos | Prophos | Phosmet | Imidan | | |

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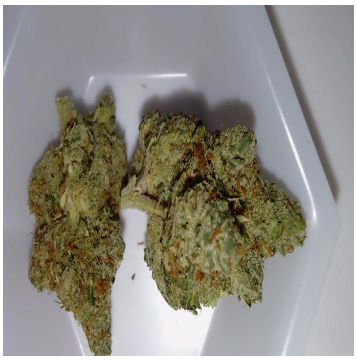
## HEAVY METAL PROFILE (SOP: SOP-ICP-200.7)

**Analysis Date/Time:** 11/18/2022 2152 (ICP/OES)
**Analysis Date/Time:** - (DMA)
**Analyst:** KF

**Method:** ICP/OES
**Instrument:** Agilent 720-ES

**Deviations from SOP:**
None

| Heavy Metal | Result (µg/kg) | LOD (µg/kg) | LOQ (µg/kg) | Action Level (µg/kg) |
|---|---|---|---|---|
| Arsenic (As) | - | 59.0 | 93.4 | 200 |
| Cadmium (Cd) | - | 59.0 | 93.4 | 200 |
| Lead (Pb) | - | 59.0 | 93.4 | 500 |
| Mercury (Hg) | - | 59.0 | 93.4 | 100 |



*Abbreviations:* ICP - Inductively-Coupled Plasma, OES - Optical Emission Spectroscopy,
DMA - Direct Mercury Analyzer, RL - Reporting Limit, AL - Action Level, LOD - Limit of Detection, LOQ - Limit of Quantitation

**Color Key**

**RESULT < AL**
**RESULT > AL**

"DET" detected less than LOQ

"-" not detected above LOD

Action levels for heavy metals are referenced from the State of Arkansas MMJ testing guidelines.

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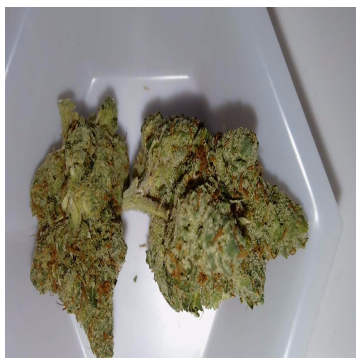
## MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

**Analysis Date/Time:** 11/19/2022 1100
**Analyst:** PW

**Method:** Hardy Diagnostics CompactDry
**Instrument:** Thermo Incubator

**Deviations from SOP:**
None

| Bacteria/Microbe | Result (CFU/g) | Action Level (CFU/g) |
|---|---|---|
| Aerobic Plate Count | NT | - |
| Coliforms, Total | Absent | 1 |
| Escherichia Coli (E. Coli) | Absent | 100 |
| Mold/Yeast | NT | - |
| Pseudomonas aeruginosa | NT | 1 |
| Salmonella spp. | NT | - |
| Staphylococcus aureus | NT | - |



*Abbreviations:* EC - Escherichia Coli, CFU - Colony-Forming Unit, RL - Reporting Limit, AL - Action Level, TNTC - Too Numerous To Count, NT - Not Tested
Absent - Not Detected Above RL, Present - Detected Above RL

**Color Key**

RESULT < AL

RESULT > AL

**Reporting Limit (CFU/g)**
1

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