F.A.S.T. LABORATORIES/RESEARCH

ACCREDITED CERTIFICATE #4473.01

ASA PFC Laboratory

Analyzed on behalf of: RVR

SUMMARY OF ANALYSIS (SAMPLE ID: SA34006)

Testing Location:	**Customer ID:** 2161	**Order ID:** OR10240	**Sample Type:** Primary
Arkansas	River Valley Relief Cultivation	**Lot Number:**	**Matrix:** Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13134941358	**Mass:** 23g
Greenbrier, AR 72058	Fort Smith, AR 72903	**Production Run:**	**Date Collected:** 12/28/2022
License: ADH 113	License: 00065C	2016H20221028CDG1	**Date Received:** 12/28/2022
Cultivar (Strain) or Sample Description: Chem Dawg			**Date Completed:** 12/30/2022

*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
14.0	0.488 @ 24.3ºC	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	27.5	275
CBGA	0.738	7.38
Δ9-THC	0.660	6.60
TOTAL CBD	-	-
TOTAL THC	24.7	247
TOTAL CANNABINOIDS	29.0	290

Terpenes (Top 5)	(%)	µg/g
β-Myrcene	0.182	1820
Caryophyllene oxide	0.146	1460
d-Limonene	0.0919	919
Linalool	0.0619	619
β-Pinene	0.0474	474
TOTAL TERPENES	0.757	7570

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

www.FASTLaboratories.com

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

Analysis Date/Time: 12/30/2022 1128 — **Method:** HPLC/DAD — **Moisture Content (%):** 14.0167

Analyst: PW — **Instrument:** Agilent 1100 — **Water Activity (aw):** 0.488 @ 24.27ºC

Cannabinoid	Result (%)	UM (+/-%)	Result (mg/g)	LOQ (mg/g)	Result (mg/mL)	Per Serving (mg)	Per Unit (mg)
CBC	-	-	-	1.12	-	-	-
CBCA	-	-	-	1.12	-	-	-
CBD	-	-	-	1.12	-	-	-
CBDA	-	-	-	1.12	-	-	-
CBDV	-	-	-	1.12	-	-	-
CBDVA	-	-	-	1.12	-	-	-
CBG	-	-	-	1.12	-	-	-
CBGA	0.738	0.0664	7.38	1.12	-	7.38	7.38
CBL	-	-	-	1.12	-	-	-
CBN	-	-	-	1.12	-	-	-
CBNA	-	-	-	1.12	-	-	-
Δ9-THC	0.660	0.0594	6.60	1.12	-	6.60	6.60
Δ8-THC	-	-	-	1.12	-	-	-
THCA	27.5	2.47	275	1.12	-	275	275
THCV	-	-	-	1.12	-	-	-
THCVA	0.187	0.0168	1.87	1.12	-	1.87	1.87
TOTAL	29.0	2.61	290		-	290	290
TOTAL CBC	-	-	-		-	-	-
TOTAL CBD	-	-	-		-	-	-
TOTAL CBDV	-	-	-		-	-	-
TOTAL CBG	0.648	0.0583	6.48		-	6.48	6.48
TOTAL CBN	-	-	-		-	-	-
TOTAL THC	24.7	2.23	247		-	247	247
TOTAL THCV	0.162	0.0146	1.62		-	1.62	1.62

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:

CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34006)

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Cultivar (Strain) or Sample Description: Chem Dawg — **Date Completed:** 12/30/2022

TERPENOID PROFILE

Analysis Date/Time:12/29/2022 2049 — **Method:** GC/MS — **Deviations from SOP:**

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

Terpene	Result (µg/g)	Result (%)
α-Bisabolol	-	-
Camphene	177	0.0177
δ-3-Carene	-	-
β-Caryophyllene	458	0.0458
Caryophyllene oxide	1460	0.146
p-Cymene	-	-
Eucalyptol	-	-
Geraniol	298	0.0298
Guaiol	-	-
α-Humulene	140	0.0140
Isopulegol	-	-
d-Limonene	919	0.0919
Linalool	619	0.0619
β-Myrcene	1820	0.182
cis-Nerolidol	-	-
trans-Nerolidol	458	0.0458
α-Ocimene	-	-
β-Ocimene	289	0.0289
α-Pinene	134	0.0134
β-Pinene	474	0.0474
α-Terpinene	-	-
γ-Terpinene	-	-
Terpinolene	328	0.0328
TOTAL	7570	0.757

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

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"-" Not detected above RL.

Reporting Limit (µg/g): 44.0

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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 12/29/2022 1936 — **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)	-	0.0440	0.352	0.5
Acephate (30560-19-1)	-	0.0440	0.352	0.4
Acequinocyl (57960-19-7)	-	0.0440	0.352	2
Acetamiprid (135410-20-7)	-	0.0440	0.352	0.2
Aldicarb (116-06-3)	-	0.0440	0.352	0.4
Azoxystrobin (131860-33-8)	-	0.0440	0.352	0.2
Bifenazate (149877-41-8)	-	0.0440	0.352	0.2
Bifenthrin (82657-04-3)	-	0.0440	0.352	0.2
Boscalid (188425-85-6)	-	0.0440	0.352	0.4
Carbaryl (63-25-2)	-	0.0440	0.352	0.2
Carbofuran (1563-66-2)	-	0.0440	0.352	0.2
Chlorantraniliprole (800008-45-7)	-	0.0440	0.352	0.2
Chlorfenapyr (122453-73-0)	-	0.0440	0.352	1
Chlorpyrifos (2921-88-2)	-	0.0440	0.352	0.2
Clofentezine (74115-24-5)	-	0.0440	0.352	0.2
Cyfluthrin (68359-37-5)	-	0.0440	0.352	1
Cypermethrin (52315-07-8)	-	0.0440	0.352	1
Daminozide (1596-84-5)	-	0.0440	0.352	1
DDVP (62-73-7)	-	0.0440	0.352	0.1
Diazinon (333-41-5)	-	0.0440	0.352	0.2
Dimethoate (60-51-5)	-	0.0440	0.352	0.2
Ethoprophos (13194-48-4)	-	0.0440	0.352	0.2
Etofenprox (80844-07-1)	-	0.0440	0.352	0.4
Etoxazole (153233-91-1)	-	0.0440	0.352	0.2
Fenoxycarb (72490-01-8)	-	0.0440	0.352	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0440	0.352	0.4
Fipronil (120068-37-3)	-	0.0440	0.352	0.4
Flonicamid (158062-67-0)	-	0.0440	0.352	1
Fludioxinil (131341-86-1)	-	0.0440	0.352	0.4
Hexythiazox (78587-05-0)	-	0.0440	0.352	1
Imazalil (35554-44-0)	-	0.0440	0.352	0.2
Imidacloprid (138261-41-3)	-	0.0440	0.352	0.4

Pesticide	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)
Kresoxim-methyl (143390-89-0)	-	0.0440	0.352	0.4
Malathion (121-75-5)	-	0.0440	0.352	0.2
Metalaxyl (57837-19-1)	-	0.0440	0.352	0.2
Methiocarb (2032-65-7)	-	0.0440	0.352	0.2
Methomyl (16752-77-5)	-	0.0440	0.352	0.4
Methyl parathion (298-0-0)	-	0.0440	0.352	0.2
MGK 264 (113-48-4)	-	0.0440	0.352	0.2
Myclobutanil (88671-89-0)	-	0.0440	0.352	0.2
Naled (300-76-5)	-	0.0440	0.352	0.5
Oxamyl (23135-22-0)	-	0.0440	0.352	1
Paclobutrazol (76738-62-0)	-	0.0440	0.352	0.4
Permethrins (52645-53-1)	-	0.0440	0.352	0.2
Phosmet (732-11-6)	-	0.0440	0.352	0.2
Piperonyl butoxide (51-03-6)	-	0.0440	0.352	2
Prallethrins (2331-36-9)	-	0.0440	0.352	0.2
Propiconazole (60207-90-1))	-	0.0440	0.352	0.4
Propoxur (114-26-1)	-	0.0440	0.352	0.2
Pyrethrins (8003-34-7)	-	0.0440	0.352	1
Pyridaben (96489-71-3)	-	0.0440	0.352	0.2
Spinosad (168316-95-8)	-	0.0440	0.352	0.2
Spiromesifen (283594-90-1)	-	0.0440	0.352	0.2
Spirotetramat (203313-25-1)	-	0.0440	0.352	0.2
Spiroxamine (118134-30-8)	-	0.0440	0.352	0.4
Tebuconazole (80443-41-0)	-	0.0440	0.352	0.4
Thiacloprid (111988-49-9)	-	0.0440	0.352	0.2
Thiamethoxam (153719-23-4)	-	0.0440	0.352	0.2
Trifloxystrobin (141517-21-7)	-	0.0440	0.352	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: 12/30/2022 1053 (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)	-	59.6	94.3	200
Cadmium (Cd)	-	59.6	94.3	200
Lead (Pb)	-	59.6	94.3	500
Mercury (Hg)	-	59.6	94.3	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: 12/30/2022 1336
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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