

SUMMARY OF ANALYSIS (SAMPLE ID: SA35447)

Testing Location:	Customer ID: 2168	Order ID: OR10497	Sample Type: Primary
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13242879706	Mass: 4g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 06/19/2023
License: ADH 113	License: 00065C	E20230612CDGLBu01	Date Received: 06/20/2023
Cultivar (Strain) or Sample Description: Chem Dawg Indica Live Budder 1g Jar			Date Completed: 06/21/2023

*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 (%)

Not Tested

Water Activity (aw)

Not Tested

PASS/FAIL

PASS

Moisture content/water activity action levels are referenced from the State of Arkansas MMJ testing guidelines.

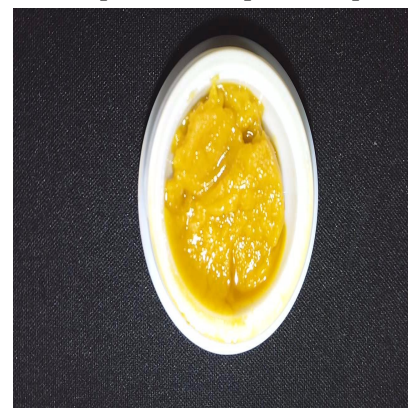
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

Cannabinoids (Top 3)	(%)	mg/g
THCA	81.0	810
CBGA	1.21	12.1
Δ9-THC	0.836	8.36
TOTAL CBD	-	-
TOTAL THC	71.9	719
TOTAL CANNABINOIDS	83.9	839

Terpenes (Top 5)	(%)	µg/g
β-Myrcene	2.79	27900
d-Limonene	2.06	20600
Linalool	0.255	2550
β-Caryophyllene	0.189	1890
α-Pinene	0.140	1400
TOTAL TERPENES	5.71	57100

Contaminants	PASS/FAIL
Heavy Metals:	PASS
Microbiology:	PASS
Pesticides:	PASS
Residual Solvents:	PASS

Sample Picture Upon Receipt



Scan the QR code to verify results.

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www.FASTLaboratories.com

Kyle W. Felling
Kyle W. Felling, Ph.D.
Laboratory Director



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35447)

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License: ADH 113	License: 00065C	E20230612CDGLBu01	Date Received: 06/20/2023

Cultivar (Strain) or Sample Description: Chem Dawg Indica Live Budder 1g Jar **Date Completed:** 06/21/2023

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

Analysis Date/Time: 06/20/2023 1341

Method: HPLC/DAD

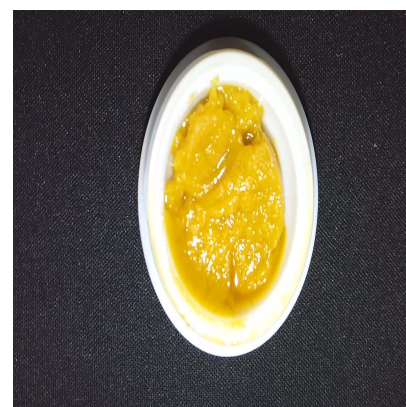
Moisture Content (%): -

Analyst: PW

Instrument: Agilent 1100

Water Activity (aw): -

<u>Cannabinoid</u>	<u>Result</u> <u>(%)</u>	<u>Result</u> <u>(mg/g)</u>	<u>LOD</u> <u>(mg/g)</u>	<u>LOQ</u> <u>(mg/g)</u>	<u>Result</u> <u>(mg/mL)</u>	<u>Per</u> <u>Serving</u> <u>(mg)</u>	<u>Per</u> <u>Unit</u> <u>(mg)</u>
CBC	ND	ND	0.108	0.251	-	-	-
CBCA	ND	ND	0.334	0.779	-	-	-
CBD	ND	ND	0.758	1.77	-	-	-
CBDV	ND	ND	0.279	0.652	-	-	-
CBDVA	ND	ND	0.122	0.284	-	-	-
CBG	0.291	2.91	0.324	0.757	-	-	-
CBGA	1.21	12.1	0.492	1.15	-	2.91	2.91
CBL	ND	ND	0.698	0.823	-	12.1	12.1
CBN	ND	ND	0.569	1.33	-	-	-
CBNA	ND	ND	0.261	0.610	-	-	-
Δ9-THC	ND	ND	0.282	0.657	-	-	-
Δ8-THC	0.836	8.36	0.313	0.730	-	8.36	8.36
THCA	ND	ND	0.488	1.14	-	-	-
THCV	81.0	810	0.170	0.397	-	810	810
THCVA	ND	ND	0.407	0.950	-	-	-
THCVA	0.536	5.36	0.130	0.303	-	5.36	5.36
TOTAL	83.9	839			-	839	839
TOTAL CBC	-	-			-	-	-
TOTAL CBD	-	-			-	-	-
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	1.35	13.5			-	13.5	13.5
TOTAL CBN	-	-			-	-	-
TOTAL THC	71.9	719			-	719	719
TOTAL THCVA	0.465	4.65			-	4.65	4.65



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 = (CBDV 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 THCVA = (THCVA x 0.867) + THCVA

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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Percentage results are reported by mass.

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

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Kyle W. Felling
Laboratory Director

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TERPENOID PROFILE

Analysis Date/Time: 06/20/2023 2352

Method: GC/MS

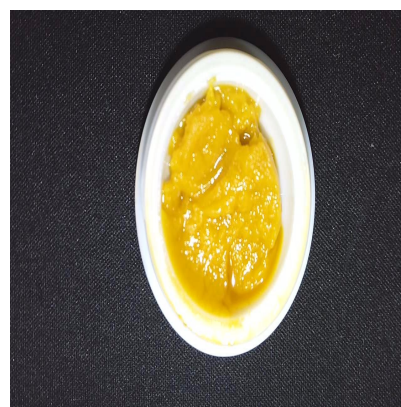
Deviations from SOP:

Analyst: KF

Instrument: Agilent 7890/5975

None

Terpene	Result (µg/g)	Result (%)	
α-Bisabolol	-	-	
Camphene	431	0.0431	
δ-3-Carene	-	-	
β-Caryophyllene	1890	0.189	
Caryophyllene oxide	-	-	
p-Cymene	-	-	
Eucalyptol	-	-	
Geraniol	-	-	
Guaiol	-	-	
α-Humulene	738	0.0738	
Isopulegol	-	-	
d-Limonene	20600	2.06	
Linalool	2550	0.255	
β-Myrcene	27900	2.79	
cis-Nerolidol	-	-	
trans-Nerolidol	-	-	
α-Ocimene	-	-	
β-Ocimene	440	0.0440	
α-Pinene	1400	0.140	
β-Pinene	899	0.0899	
α-Terpinene	31.0	0.00310	
γ-Terpinene	38.4	0.00384	
Terpinolene	233	0.0233	
TOTAL	57100	5.71	



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

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"-" Not detected above RL.

Reporting Limit (µg/g): 337

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RESIDUAL SOLVENT PROFILE (SOP: SOP-RS-001)

Analysis Date/Time: 06/20/2023 1246 **Method:** HS/GC/MS **Deviations from SOP:**
Analyst: KF **Instrument:** Agilent 7890/5975 **None**

Solvent	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)	Solvent	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)
Acetone (67-64-1)	-	95.6	191	5000	n-Heptane (142-82-5)	-	95.6	191	5000
Acetonitrile (75-5-8)	-	95.6	191	410	n-Hexane (110-54-3)	-	33.5	66.9	290
Benzene (71-43-2)	-	0.956	1.91	2	Isobutane (75-28-5)	-	95.6	191	5000
n-Butane (106-97-2)	292	95.6	191	5000	Isopropanol (67-63-0)	-	95.6	191	5000
1-Butanol (71-36-3)	-	95.6	191	5000	Isopropyl acetate (108-21-4)	-	95.6	191	5000
2-Butanol (78-92-2)	-	95.6	191	5000	Isopropyl benzene (98-82-8)	-	9.56	19.1	70
2-Butanone (78-93-3)	-	95.6	191	5000	Methanol (67-56-1)	-	95.6	191	3000
Cyclohexane (110-82-7)	-	95.6	191	3880	2-Methylbutane (78-78-4)	-	95.6	191	5000
1,2-Dimethoxyethane (110-71-4)	-	9.56	19.1	100	Methylene chloride (75-9-2)	-	95.6	191	600
N,N-Dimethylacetamide (127-19-5)	-	95.6	191	1090	2-Methylpentane (107-83-5)	-	33.5	66.9	290
2,2-Dimethylbutane (75-83-2)	-	33.5	66.9	290	3-Methylpentane (96-10-0)	-	33.5	66.9	290
2,3-Dimethylbutane (79-29-8)	-	33.5	66.9	290	n-Pentane (109-66-0)	-	95.6	191	5000
N,N-Dimethylformamide (68-12-2)	-	95.6	191	880	1-Pentanol (71-41-0)	-	95.6	191	5000
Dimethylsulfoxide (67-68-5)	-	95.6	191	5000	n-Propane (74-98-6)	-	95.6	191	5000
1,4-Dioxane (123-91-1)	-	95.6	191	380	1-Propanol (71-23-8)	-	95.6	191	5000
Ethanol (64-17-5)	-	95.6	191	5000	Pyridine (110-86-1)	-	33.5	66.9	200
2-Ethoxyethanol (110-80-5)	-	33.5	66.9	160	Tetrahydrofuran (109-99-9)	-	95.6	191	720
Ethyl ether (60-29-7)	-	95.6	191	5000	Tetramethylene sulfone (126-33-0)	-	33.5	66.9	160
Ethyl acetate (141-78-6)	-	95.6	191	5000	Toluene (108-88-3)	-	95.6	191	890
Ethyl benzene (100-41-4)	-	95.6	191	2170	o-Xylene (95-47-6)	-	95.6	191	2170
Ethylene glycol (107-21-1)	-	95.6	191	620	m,p-Xylene (108-38-3 or 106-42-3)	-	95.6	191	2170
Ethylene oxide (75-21-8)	-	9.56	19.1	50	Xylenes* (1330-20-7)	-	43.3	86.7	2170



Color Key

RESULT < AL

RESULT > AL

"DET" detected less than LOQ

"-" not detected above LOD

"*" - o,m,p-Xylene and Ethylbenzene

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.

Solvent	Synonym(s)	Solvent	Synonym(s)
Acetonitrile	Methyl Cyanide, ACN	Ethylene glycol	1,2-Ethanediol
1-Butanol	n-Butanol, Butyl Alcohol	Isobutane	2-Methylpropane
2-Butanol	sec-Butyl alcohol	Isopropanol	2-Propanol, IPA
2-Butanone	Methyl ethyl ketone, MEK	Isopropyl Acetate	Acetic acid isopropyl ester
1,2-Dimethoxyethane	Monoglyme	Methanol	Methyl alcohol
2,3-Dimethylbutane	Neohexane	2-Methylbutane	Isopentane
2,3-Dimethylbutane	Diisopropyl	Methylene chloride	Dichloromethane
N,N-Dimethylformamide	DMF	2-Methylpentane	Isohexane
Dimethylsulfoxide	DMSO	1-Pentanol	n-Amyl alcohol
2-Ethoxyethanol	Cellosolve, Ethyl glycol	1-Propanol	Propyl alcohol
Ethyl ether	Diethyl ether, Ether	Tetrahydrofuran	THF
Ethyl acetate	EtOAc	Tetramethylene sulfone	Sulfolane
Ethyl benzene	Phenylethane	Xylene	Dimethylbenzene

Abbreviations: HS-Headspace, GC-Gas Chromatography, MS-Mass Spectrometry, RL-Reporting Limit, AL-Action Level, CAS-Chemical Abstract Services, LOD - Limit of Detection, LOQ - Limit of Quantification

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Cultivar (Strain) or Sample Description: Chem Dawg Indica Live Budder 1g Jar **Date Completed:** 06/21/2023

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 06/20/2023 1330

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)	Pesticide	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)
Abamectin (71751-41-2)	-	0.0470	0.376	0.5	Kresoxim-methyl (143390-89-0)	-	0.0470	0.376	0.4
Acephate (30560-19-1)	-	0.0470	0.376	0.4	Malathion (121-75-5)	-	0.0470	0.376	0.2
Acetaminophen (57960-19-7)	-	0.0470	0.376	2	Metalaxyl (57837-19-1)	-	0.0470	0.376	0.2
Acetamiprid (135410-20-7)	-	0.0470	0.376	0.2	Methiocarb (2032-65-7)	-	0.0470	0.376	0.2
Aldicarb (116-06-3)	-	0.0470	0.376	0.4	Methomyl (16752-77-5)	-	0.0470	0.376	0.4
Azoxystrobin (131860-33-8)	-	0.0470	0.376	0.2	Methyl parathion (298-0-0)	-	0.0470	0.376	0.2
Bifenazate (149877-41-8)	-	0.0470	0.376	0.2	MGK 264 (113-48-4)	-	0.0470	0.376	0.2
Bifenthrin (82657-04-3)	-	0.0470	0.376	0.2	Myclobutanil (88671-89-0)	-	0.0470	0.376	0.2
Boscalid (188425-85-6)	-	0.0470	0.376	0.4	Naled (300-76-5)	-	0.0470	0.376	0.5
Carbaryl (63-25-2)	-	0.0470	0.376	0.2	Oxamyl (23135-22-0)	-	0.0470	0.376	1
Carbofuran (1563-66-2)	-	0.0470	0.376	0.2	Paclobutrazol (76738-62-0)	-	0.0470	0.376	0.4
Chlorantraniliprole (800008-45-7)	-	0.0470	0.376	0.2	Permethrins (52645-53-1)	-	0.0470	0.376	0.2
Chlorfenapyr (122453-73-0)	-	0.0470	0.376	1	Phosmet (732-11-6)	-	0.0470	0.376	0.2
Chlorpyrifos (2921-88-2)	-	0.0470	0.376	0.2	Piperonyl butoxide (51-03-6)	-	0.0470	0.376	2
Clofentezine (74115-24-5)	-	0.0470	0.376	0.2	Prallethrin (2331-36-9)	-	0.0470	0.376	0.2
Cyfluthrin (68359-37-5)	-	0.0470	0.376	1	Propiconazole (60207-90-1))	-	0.0470	0.376	0.4
Cypermethrin (52315-07-8)	-	0.0470	0.376	1	Propoxur (114-26-1)	-	0.0470	0.376	0.2
Daminozide (1596-84-5)	-	0.0470	0.376	1	Pyrethrins (8003-34-7)	-	0.0470	0.376	1
DDVP (62-73-7)	-	0.0470	0.376	0.1	Pyridaben (96489-71-3)	-	0.0470	0.376	0.2
Diazinon (333-41-5)	-	0.0470	0.376	0.2	Spinosad (168316-95-8)	-	0.0470	0.376	0.2
Dimethoate (60-51-5)	-	0.0470	0.376	0.2	Spiromesifen (283594-90-1)	-	0.0470	0.376	0.2
Ethoprophos (13194-48-4)	-	0.0470	0.376	0.2	Spirotetramat (203313-25-1)	-	0.0470	0.376	0.2
Etofenprox (80844-07-1)	-	0.0470	0.376	0.4	Spiroxamine (118134-30-8)	-	0.0470	0.376	0.4
Etoxazole (153233-91-1)	-	0.0470	0.376	0.2	Tebuconazole (80443-41-0)	-	0.0470	0.376	0.4
Fenoxycarb (72490-01-8)	-	0.0470	0.376	0.2	Thiacloprid (111988-49-9)	-	0.0470	0.376	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0470	0.376	0.4	Thiamethoxam (153719-23-4)	-	0.0470	0.376	0.2
Fipronil (120068-37-3)	-	0.0470	0.376	0.4	Trifloxystrobin (141517-21-7)	-	0.0470	0.376	0.2
Flonicamid (158062-67-0)	-	0.0470	0.376	1					
Fludioxinil (131341-86-1)	-	0.0470	0.376	0.4					
Hexythiazox (78587-05-0)	-	0.0470	0.376	1					
Imazalil (35554-44-0)	-	0.0470	0.376	0.2					
Imidacloprid (138261-41-3)	-	0.0470	0.376	0.4					



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
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guidelines.

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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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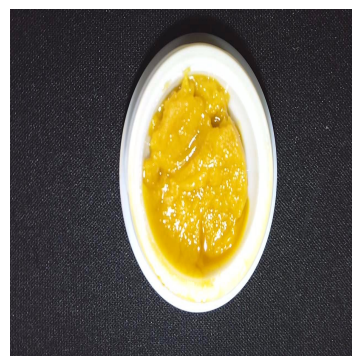
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HEAVY METAL PROFILE (SOP: SOP-ICP-200.6)

Analysis Date/Time: 06/20/2023 1633 (ICP/OES)	Method: ICP/MS	Deviations from SOP:
Analysis Date/Time: - (DMA)	Instrument: Agilent 7500ce	None
Analyst: KF		

<u>Heavy Metal</u>	<u>Result</u> (µg/kg)	<u>LOD</u> (µg/kg)	<u>LOQ</u> (µg/kg)	<u>Action Level</u> (µg/kg)
Arsenic (As)	-	59.7	94.5	200
Cadmium (Cd)	-	59.7	94.5	200
Lead (Pb)	-	59.7	94.5	500
Mercury (Hg)	-	59.7	94.5	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.

Disclaimer: This information is provided as a service and makes no claims of efficacy and/or safety of this product. Results are applicable only for the sample(s) analyzed and for the specific analysis conducted. This report is for informational purposes only and should not be used to diagnose, treat, or prevent any medical-related symptoms. The statements and results herein have not been approved and/or endorsed by the FDA.

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CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35447)

Testing Location:	Customer ID: 2168	Sample ID: SA35447	Sample Type: Primary
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13242879706	Mass: 4g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 06/19/2023
License: ADA 05_H273	License: 00065C	E20230612CDGLBu01	Date Received: 06/20/2023
Cultivar (Strain) or Sample Description: Chem Dawg Indica Live Budder 1g Jar			Date Completed: 06/21/2023

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 06/21/2023 0953	Method: Hardy Diagnostics CompactDry	Deviations from SOP:
Analyst: PW	Instrument: Thermo Incubator	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	-
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

Action levels for microbiology 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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Kyle W. Felling
Kyle W. Felling, Ph.D.
Laboratory Director

