

SUMMARY OF ANALYSIS (SAMPLE ID: SA38540)

Testing Location:	Customer ID: 2168	Order ID: OR11131	Sample Type: Primary
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13241415218	Mass: 3ea
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 08/01/2024
License: ADH 113	License: 00065C	E20240731GP2BH01	Date Received: 08/01/2024
Cultivar (Strain) or Sample Description: Grape Pie #2 Solventless Bubble Hash 1.5g Jar			Date Completed: 08/04/2024

*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	65.8	658
CBGA	2.30	23.0
Δ^9 -THC	1.86	18.6
TOTAL CBD	-	-
TOTAL THC	59.6	596
TOTAL CANNABINOIDS	70.8	708

Terpenes (Top 5)	(%)	μg/g
d-Limonene	1.20	12000
α -Pinene	0.799	7990
β -Pinene	0.498	4980
β -Caryophyllene	0.451	4510
β -Ocimene	0.258	2580
TOTAL TERPENES	4.21	42100

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



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA38540)

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License: ADH 113	License: 00065C	E20240731GP2BH01	Date Received: 08/01/2024

Cultivar (Strain) or Sample Description: Grape Pie #2 Solventless Bubble Hash 1.5g Jar **Date Completed:** 08/04/2024

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

Analysis Date/Time: 08/02/2024 1548

Method: HPLC/DAD

Moisture Content (%): -

Analyst: PW

Instrument: Agilent 1100

Water Activity (aw): -

<u>Cannabinoid</u>	<u>Result</u> (%)	<u>Result</u> (mg/g)	<u>LOD</u> (mg/g)	<u>LOQ</u> (mg/g)	<u>Result</u> (mg/ mL)	<u>Per</u> <u>Serving</u> (mg)	<u>Per</u> <u>Unit</u> (mg)
CBC	ND	ND	0.112	0.260	-	-	-
CBCA	ND	ND	0.346	0.808	-	-	-
CBD	ND	ND	0.787	1.84	-	-	-
CBDV	ND	ND	0.290	0.676	-	-	-
CBDVA	ND	ND	0.126	0.295	-	-	-
CBG	0.421	4.21	0.337	0.786	-	-	-
CBGA	2.30	23.0	0.511	1.19	-	20.0	200
CBL	ND	ND	0.724	0.854	-	109	1090
CBN	ND	ND	0.590	1.38	-	-	-
CBNA	ND	ND	0.271	0.633	-	-	-
Δ9-THC	ND	ND	0.293	0.682	-	-	-
Δ8-THC	1.86	18.6	0.325	0.757	-	88.2	882
THCA	ND	ND	0.507	1.18	-	-	-
THCV	65.8	658	0.176	0.412	-	3130	31300
THCVA	ND	ND	0.423	0.985	-	-	-
THCVA	0.457	4.57	0.135	0.314	-	21.7	217
TOTAL	70.8	708			-	3360	33600
TOTAL CBC	-	-			-	-	-
TOTAL CBD	-	-			-	-	-
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	2.44	24.4			-	116	1160
TOTAL CBN	-	-			-	-	-
TOTAL THC	59.6	596			-	2830	28300
TOTAL THCVA	0.396	3.96			-	18.8	188



SERVING MASS (g): 4.75
SERVINGS/UNIT: 10

"-" 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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Cultivar (Strain) or Sample Description: Grape Pie #2 Solventless Bubble Hash 1.5g Jar			Date Completed: 08/04/2024

TERPENOID PROFILE

Analysis Date/Time: 08/02/2024 1858

Method: GC/MS

Deviations from SOP:

Analyst: KF

Instrument: Agilent 7890/5975

None

Terpene	Result (µg/g)	Result (%)	
α-Bisabolol	797	0.0797	
Camphene	754	0.0754	
δ-3-Carene	ND	-	
β-Caryophyllene	4510	0.451	
Caryophyllene oxide	554	0.0554	
p-Cymene	ND	-	
Eucalyptol	ND	-	
Geraniol	132	0.0132	
Guaiol	1960	0.196	
α-Humulene	1820	0.182	
Isopulegol	106	0.0106	
d-Limonene	12000	1.20	
Linalool	1710	0.171	
β-Myrcene	1330	0.133	
cis-Nerolidol	ND	-	
trans-Nerolidol	ND	-	
α-Ocimene	214	0.0214	
β-Ocimene	2580	0.258	
α-Pinene	7990	0.799	
β-Pinene	4980	0.498	
α-Terpinene	<LOQ	-	
γ-Terpinene	<LOQ	-	
Terpinolene	592	0.0592	
TOTAL	42100	4.21	



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

Abbreviations: ND - Not Detected, LOD - Limit of Detection, LOQ - Limit of Quantitation

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Reporting Limit (µg/g): 48.9

"-" Not detected above LOD.

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Cultivar (Strain) or Sample Description: Grape Pie #2 Solventless Bubble Hash 1.5g Jar **Date Completed:** 08/04/2024

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

Analysis Date/Time: 08/02/2024 0122	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)	-	18.8	37.6	5000	n-Heptane (142-82-5)	-	18.8	37.6	5000
Acetonitrile (75-5-8)	-	18.8	37.6	410	n-Hexane (110-54-3)	-	6.59	13.2	290
Benzene (71-43-2)	-	0.188	0.376	2	Isobutane (75-28-5)	-	18.8	37.6	5000
n-Butane (106-97-2)	-	18.8	37.6	5000	Isopropanol (67-63-0)	-	18.8	37.6	5000
1-Butanol (71-36-3)	-	18.8	37.6	5000	Isopropyl acetate (108-21-4)	-	18.8	37.6	5000
2-Butanol (78-92-2)	-	18.8	37.6	5000	Isopropyl benzene (98-82-8)	-	1.88	3.76	70
2-Butanone (78-93-3)	-	18.8	37.6	5000	Methanol (67-56-1)	-	18.8	37.6	3000
Cyclohexane (110-82-7)	-	18.8	37.6	3880	2-Methylbutane (78-78-4)	-	18.8	37.6	5000
1,2-Dimethoxyethane (110-71-4)	-	1.88	3.76	100	Methylene chloride (75-9-2)	-	18.8	37.6	600
N,N-Dimethylacetamide (127-19-5)	-	18.8	37.6	1090	2-Methylpentane (107-83-5)	-	6.59	13.2	290
2,2-Dimethylbutane (75-83-2)	-	6.59	13.2	290	3-Methylpentane (96-10-0)	-	6.59	13.2	290
2,3-Dimethylbutane (79-29-8)	-	6.59	13.2	290	n-Pentane (109-66-0)	-	18.8	37.6	5000
N,N-Dimethylformamide (68-12-2)	-	18.8	37.6	880	1-Pentanol (71-41-0)	-	18.8	37.6	5000
Dimethylsulfoxide (67-68-5)	-	18.8	37.6	5000	n-Propane (74-98-6)	-	18.8	37.6	5000
1,4-Dioxane (123-91-1)	-	18.8	37.6	380	1-Propanol (71-23-8)	-	18.8	37.6	5000
Ethanol (64-17-5)	-	18.8	37.6	5000	Pyridine (110-86-1)	-	6.59	13.2	200
2-Ethoxyethanol (110-80-5)	-	6.59	13.2	160	Tetrahydrofuran (109-99-9)	-	18.8	37.6	720
Ethyl ether (60-29-7)	-	18.8	37.6	5000	Tetramethylene sulfone (126-33-0)	-	6.59	13.2	160
Ethyl acetate (141-78-6)	-	18.8	37.6	5000	Toluene (108-88-3)	-	18.8	37.6	890
Ethyl benzene (100-41-4)	-	18.8	37.6	2170	o-Xylene (95-47-6)	-	18.8	37.6	2170
Ethylene glycol (107-21-1)	-	18.8	37.6	620	mp-Xylene (108-38-3 or 106-42-3)	-	18.8	37.6	2170
Ethylene oxide (75-21-8)	-	1.88	3.76	50	Xylenes* (1330-20-7)	-	43.3	86.7	2170



Color Key

RESULT < AL

RESULT > AL

"-" not detected above 1/2 Action Level

"*" - 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: Grape Pie #2 Solventless Bubble Hash 1.5g Jar **Date Completed:** 08/04/2024

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 08/02/2024 1621

Analyst: KF

Method: LC/MS/MS

Instrument: Shimadzu LC-8050

Deviations from SOP:

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)	-	0.0486	0.389	0.5	Kresoxim-methyl (143390-89-0)	-	0.0486	0.389	0.4
Acephate (30560-19-1)	-	0.0486	0.389	0.4	Malathion (121-75-5)	-	0.0486	0.389	0.2
Acetaminophen (57960-19-7)	-	0.0486	0.389	2	Metalaxyl (57837-19-1)	-	0.0486	0.389	0.2
Acetamiprid (135410-20-7)	-	0.0486	0.389	0.2	Methiocarb (2032-65-7)	-	0.0486	0.389	0.2
Aldicarb (116-06-3)	-	0.0486	0.389	0.4	Methomyl (16752-77-5)	-	0.0486	0.389	0.4
Azoxystrobin (131860-33-8)	-	0.0486	0.389	0.2	Methyl parathion (298-0-0)	-	0.0486	0.389	0.2
Bifenazate (149877-41-8)	-	0.0486	0.389	0.2	MGK 264 (113-48-4)	-	0.0486	0.389	0.2
Bifenthrin (82657-04-3)	-	0.0486	0.389	0.2	Myclobutanil (88671-89-0)	-	0.0486	0.389	0.2
Boscalid (188425-85-6)	-	0.0486	0.389	0.4	Naled (300-76-5)	-	0.0486	0.389	0.5
Carbaryl (63-25-2)	-	0.0486	0.389	0.2	Oxamyl (23135-22-0)	-	0.0486	0.389	1
Carbofuran (1563-66-2)	-	0.0486	0.389	0.2	Paclobutrazol (76738-62-0)	-	0.0486	0.389	0.4
Chlorantraniliprole (800008-45-7)	-	0.0486	0.389	0.2	Permethrins (52645-53-1)	-	0.0486	0.389	0.2
Chlorfenapyr (122453-73-0)	-	0.0486	0.389	1	Phosmet (732-11-6)	-	0.0486	0.389	0.2
Chlorpyrifos (2921-88-2)	-	0.0486	0.389	0.2	Piperonyl butoxide (51-03-6)	-	0.0486	0.389	2
Clofentezine (74115-24-5)	-	0.0486	0.389	0.2	Prallethrin (2331-36-9)	-	0.0486	0.389	0.2
Cyfluthrin (68359-37-5)	-	0.0486	0.389	1	Propiconazole (60207-90-1)	-	0.0486	0.389	0.4
Cypermethrin (52315-07-8)	-	0.0486	0.389	1	Propoxur (114-26-1)	-	0.0486	0.389	0.2
Daminozide (1596-84-5)	-	0.0486	0.389	1	Pyrethrins (8003-34-7)	-	0.0486	0.389	1
DDVP (62-73-7)	-	0.0486	0.389	0.1	Pyridaben (96489-71-3)	-	0.0486	0.389	0.2
Diazinon (333-41-5)	-	0.0486	0.389	0.2	Spinosad (168316-95-8)	-	0.0486	0.389	0.2
Dimethoate (60-51-5)	-	0.0486	0.389	0.2	Spiromesifen (283594-90-1)	-	0.0486	0.389	0.2
Ethoprophos (13194-48-4)	-	0.0486	0.389	0.2	Spirotetramat (203313-25-1)	-	0.0486	0.389	0.2
Etofenprox (80844-07-1)	-	0.0486	0.389	0.4	Spiroxamine (118134-30-8)	-	0.0486	0.389	0.4
Etoxazole (153233-91-1)	-	0.0486	0.389	0.2	Tebuconazole (80443-41-0)	-	0.0486	0.389	0.4
Fenoxycarb (72490-01-8)	-	0.0486	0.389	0.2	Thiacloprid (111988-49-9)	-	0.0486	0.389	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0486	0.389	0.4	Thiamethoxam (153719-23-4)	-	0.0486	0.389	0.2
Fipronil (120068-37-3)	-	0.0486	0.389	0.4	Trifloxystrobin (141517-21-7)	-	0.0486	0.389	0.2
Flonicamid (158062-67-0)	-	0.0486	0.389	1					
Fludioxinil (131341-86-1)	-	0.0486	0.389	0.4					
Hexythiazox (78587-05-0)	-	0.0486	0.389	1					
Imazalil (35554-44-0)	-	0.0486	0.389	0.2					
Imidacloprid (138261-41-3)	-	0.0486	0.389	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 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-200.6)

Analysis Date/Time: 08/02/2024 1623

Method: ICP/MS

Deviations from SOP:

Instrument: Agilent 7500ce

None

Analyst: KF

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.

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.

REPORT OF LABORATORY ANALYSIS

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CERTIFICATE OF ANALYSIS (SAMPLE ID: SA38540)

Testing Location:	Customer ID: 2168	Sample ID: SA38540	Sample Type: Primary
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13241415218	Mass: 3ea
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 08/01/2024
License: ADA 05_H273	License: 00065C	E20240731GP2BH01	Date Received: 08/01/2024
Cultivar (Strain) or Sample Description: Grape Pie #2 Solventless Bubble Hash 1.5g Jar			Date Completed: 08/04/2024

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 08/02/2024 1251
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	-
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
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Laboratory Director

