







SUMMARY OF ANALYSIS (SAMPLE ID: SA37634)

Testing Location:Customer ID: 2161Order ID: OR10961Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower232 S. Broadview St.5601 Old Greenwood Rd Suite CM00065C13135476643Mass: 19g

Greenbrier, AR 72058 Fort Smith, AR 72903 **Production Run: Date Collected:** 04/15/2024 License: ADH 113 License: 00065C 4060H20240329GP2-2 **Date Received:** 04/15/2024 **Cultivar (Strain) or Sample Description:** Grape Pie #2 **Date Completed:** 04/17/2024

*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)

 Moisture Content (%)
 Water Activity (aw)
 PASS/FAIL

 12.1
 0.493 @ 24.2°C
 PASS

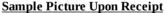
Moisture content/water activity action levels are referenced from the State of Arkansas MMJ testing guidelines.

performed. All contaminant 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.

<u>Cannabino</u>	ids (Top 3)	<u>(%)</u>	mg/g
ТН	CA	27.5	275
СВ	GA	1.20	12.0
Δ9-7	ГНС	0.194	1.94
TOTA	L CBD	-	-
TOTA	LTHC	24.3	243
TOTAL CAN	NABINOIDS	29.2	292
<u>Terpene</u>	s (Top 5)	<u>(%)</u>	рд/д
d-Lim	onene	0.463	4630
α-Pi	nene	0.212	2120
β-Caryo	ohyllene	0.156	1560
β-Pi	nene	0.148	1480
β-Oci	mene	0.0971	971
TOTAL T	ERPENES	1.34	13400
Contaminants	PASS/FAII	Sample Dictur	e Unon Receint

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







Scan the QR code to verify results.

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CERTIFICATE OF ANALYSIS (SAMPLE ID: SA37634)

Order ID: OR10961 **Testing Location:** Customer ID: 2161 Sample Type: Primary Arkansas River Valley Relief Cultivation Lot Number: Matrix: Flower 232 S. Broadview St. 5601 Old Greenwood Rd Suite C M00065C13135476643 **Mass:** 19g

Greenbrier, AR 72058 Fort Smith, AR 72903 **Production Run: Date Collected:** 04/15/2024 4060H20240329GP2-2 License: ADH 113 License: 00065C **Date Received:** 04/15/2024

Cultivar (Strain) or Sample Description: Grape Pie #2 **Date Completed:** 04/17/2024

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

Analysis Date/Time: 04/16/2024 1224 Method: HPLC/DAD Moisture Content (%): 12.1

Analyst: PW Instrument: Agilent 1100 Water Activity (aw): 0.493 @ 24.2°C

Cannabinoid	Result (%)	Result (mg/g)	LOD (mg/g)	LOQ (mg/g)	Result (mg/ mL)	Per Serving (mg)	Per Unit (mg)
CBC	ND	ND	0.0437	0.102	-	-	-
CBCA	ND	ND	0.136	0.317	-	-	-
CBD	ND	ND	0.308	0.719	-	-	-
CBDA	ND	ND	0.113	0.265	-	-	-
CBDV	ND	ND	0.0494	0.115	-	-	-
CBDVA	ND	ND	0.132	0.308	-	-	-
CBG	0.176	1.76	0.200	0.467	-	1.55	1.55
CBGA	1.20	12.0	0.284	0.335	-	10.5	10.5
CBL	ND	ND	0.231	0.540	-	-	-
CBN	ND	ND	0.106	0.248	-	-	-
CBNA	ND	ND	0.115	0.267	-	-	-
Δ9-ΤΗС	0.194	1.94	0.127	0.297	-	1.71	1.71
Δ8-ΤΗС	ND	ND	0.199	0.463	-	-	-
THCA	27.5	275	0.0690	0.161	-	242	242
THCV	ND	ND	0.166	0.386	-	-	-
THCVA	0.160	1.60	0.0529	0.123	-	1.41	1.41
TOTAL	29.2	292				257	257
TOTAL CBC	-	-				-	-
TOTAL CBD	-	-			-	-	-
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	1.23	12.3			-	10.8	10.8
TOTAL CBN	-	-			-	-	-
TOTAL THC	24.3	243			-	214	214
TOTAL THCV	0.139	1.39			-	1.22	1.22

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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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 = $(CBCA \times 0.877) + CBC$ Total CBD = $(CBDA \times 0.877) + CBD$ Total CBDV = (CBDVA \times 0.867) + CBDV Total CBG = $(CBGA \times 0.878) + CBG$ Total CBN = $(CBNA \times 0.876) + CBN$ Total THC = (THCA x 0.877) + Δ 9-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.













CERTIFICATE OF ANALYSIS (SAMPLE ID: SA37634)

Testing Location: Customer ID: 2161 Arkansas River Valley Relief Cultivation 232 S. Broadview St. 5601 Old Greenwood Rd Suite C Greenbrier, AR 72058 Fort Smith, AR 72903 License: ADH 113 License: 00065C

Order ID: OR10961 Lot Number: M00065C13135476643 **Production Run:** 4060H20240329GP2-2

Matrix: Flower **Mass:** 19g **Date Collected:** 04/15/2024

Sample Type: Primary

Date Received: 04/15/2024 **Date Completed:** 04/17/2024

Cultivar (Strain) or Sample Description: Grape Pie #2

TERPENOID PROFILE

Analysis Date/Time:04/16/2024 1644 Method: GC/MS **Deviations from SOP: Analyst: KF** Instrument: Agilent 7890/5975 None

•			
<u>Terpene</u>	<u>Result</u> (μg/g)	<u>Result</u> (%)	
$\alpha\text{-}Bisabolol$	199	0.0199	
Camphene	182	0.0182	
δ-3-Carene	ND	-	
β-Caryophyllene	1560	0.156	
Caryophyllene oxide	ND	-	
p-Cymene	ND	-	
Eucalyptol	ND	-	
Geraniol	53.2	0.00532	
Guaiol	564	0.0564	
α-Humulene	674	0.0674	
Isopulegol	ND	-	
d-Limonene	4630	0.463	
Linalool	427	0.0427	
β-Myrcene	367	0.0367	
cis-Nerolidol	ND	-	
trans-Nerolidol	<loq< td=""><td>-</td><td></td></loq<>	-	
α-Ocimene	51.2	0.00512	
β-Ocimene	971	0.0971	
α-Pinene	2120	0.212	
β-Pinene	1480	0.148	
α-Terpinene	ND	-	
γ-Terpinene	ND	-	
Terpinolene	126	0.0126	
TOTAL	13400	1.34	



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): 47.9

"-" Not detected above LOD.







License: ADH 113





4060H20240329GP2-2



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA37634)

Testing Location:Customer ID: 2161Order ID: OR10961Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower

232 S. Broadview St. 5601 Old Greenwood Rd Suite C M00065C13135476643 Mass: 19g
Greenbrier, AR 72058 Fort Smith, AR 72903 Production Run: Date Collected: 04/15/2024

Cultivar (Strain) or Sample Description: Grape Pie #2

Date Completed: 04/17/2024

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 04/16/2024 1241 Method: LC/MS/MS Deviations from SOP:

Analyst: KF Instrument: Shimadzu LC-8050 None

License: 00065C

<u>Pesticide</u>	Result (μg/g)	<u>LOD</u> (µg/g)	LOQ (µg/g)	Action Level (µg/g)	<u>Pesticide</u>	Result (μg/g)	<u>LOD</u> (µg/g)	LOQ (µg/g)	<u>Action</u> <u>Level</u> (μg/g)
Abamectin (71751-41-2)	-	0.0478	0.382	0.5	Kresoxim-methyl	_	0.0478	0.382	0.4
Acephate (30560-19-1)	-	0.0478	0.382	0.4	(143390-89-0)				
Acequinocyl (57960-19-7)	-	0.0478	0.382	2	Malathion (121-75-5)	-	0.0478	0.382	0.2
Acetamiprid (135410-20-7)	-	0.0478	0.382	0.2	Metalaxyl (57837-19-1) Methiocarb (2032-65-7)	-	0.0478 0.0478	0.382 0.382	0.2 0.2
Aldicarb (116-06-3)	-	0.0478	0.382	0.4	Methomyl (16752-77-5)	-	0.0478	0.382	0.4
Azoxystrobin (131860-33-8)	-	0.0478	0.382	0.2	Methyl parathion (298-0-0)	-	0.0478	0.382	0.2
Bifenazate (149877-41-8)	-	0.0478	0.382	0.2	MGK 264 (113-48-4)	-	0.0478	0.382	0.2
Bifenthrin (82657-04-3)	-	0.0478	0.382	0.2	Myclobutanil		0.0478	0.382	0.2
Boscalid (188425-85-6)	-	0.0478	0.382	0.4	(88671-89-0)	_	0.0476	0.302	0.2
Carbaryl (63-25-2)	-	0.0478	0.382	0.2	Naled (300-76-5)	-	0.0478	0.382	0.5
Carbofuran (1563-66-2)	-	0.0478	0.382	0.2	Oxamyl (23135-22-0)	-	0.0478	0.382	1
Chlorantraniliprole (800008-45-7)	-	0.0478	0.382	0.2	Paclobutrazol (76738-62-0)	-	0.0478	0.382	0.4
Chlorfenapyr		0.0470	0.202		Permethrins (52645-53-1)	-	0.0478	0.382	0.2
(122453-73-0)	-	0.0478	0.382	1	Phosmet (732-11-6)	-	0.0478	0.382	0.2
Chlorpyrifos (2921-88-2)	-	0.0478	0.382	0.2	Piperonyl butoxide	_	0.0478	0.382	2
Clofentezine (74115-24-5)	-	0.0478	0.382	0.2	(51-03-6)		0.0470	0.202	0.0
Cyfluthrin (68359-37-5)	-	0.0478	0.382	1	Prallethrins (2331-36-9)	-	0.0478	0.382	0.2
Cypermethrin (52315-07-8)	-	0.0478	0.382	1	Propiconazole (60207-90-1))	-	0.0478	0.382	0.4
Daminozide (1596-84-5)	-	0.0478	0.382	1	Propoxur (114-26-1)	-	0.0478	0.382	0.2
DDVP (62-73-7)	-	0.0478	0.382	0.1	Pyrethrins (8003-34-7)	-	0.0478	0.382	1
Diazinon (333-41-5)	-	0.0478	0.382	0.2	Pyridaben (96489-71-3)	-	0.0478	0.382	0.2
Dimethoate (60-51-5)	-	0.0478	0.382	0.2	Spinosad (168316-95-8)	-	0.0478	0.382	0.2
Ethoprophos (13194-48-4)	-	0.0478	0.382	0.2	Spiromesifen (283594-90-1)	-	0.0478	0.382	0.2
Etofenprox (80844-07-1)	-	0.0478	0.382	0.4	Spirotetramat				
Etoxazole (153233-91-1)	-	0.0478	0.382	0.2	(203313-25-1)	-	0.0478	0.382	0.2
Fenoxycarb (72490-01-8)	-	0.0478	0.382	0.2	Spiroxamine	_	0.0478	0.382	0.4
(E)-Fenpyroximate (134098-61-6)	-	0.0478	0.382	0.4	(118134-30-8) Tebuconazole		0.0478	0.382	0.4
Fipronil (120068-37-3)	-	0.0478	0.382	0.4	(80443-41-0)	_	0.0476	0.302	0.4
Flonicamid (158062-67-0)	-	0.0478	0.382	1	Thiacloprid	_	0.0478	0.382	0.2
Fludioxinil (131341-86-1)	-	0.0478	0.382	0.4	(111988-49-9)				
Hexythiazox (78587-05-0)	-	0.0478	0.382	1	Thiamethoxam (153719-23-4)	-	0.0478	0.382	0.2
Imazalil (35554-44-0)	-	0.0478	0.382	0.2	Trifloxystrobin		0.0456	0.000	0.0
Imidacloprid (138261-41-3)	-	0.0478	0.382	0.4	(141517-21-7)		0.0478	0.382	0.2



Color Key

Date Received: 04/15/2024

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

<u>Pesticide</u>	Synonym(s)	<u>Pesticide</u>	Synonym(s)	<u>Pesticide</u>	Synonym(s)
Cyfluthrin	Baythroid	Myclobutanil	Systhane	Propiconazole	Tilt
DDVP	Dichlorvos	Naled	Dibrom	Propoxur	Baygon
Ethoprophos	Prophos	Phosmet	Imidan		













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Greenbrier, AR 72058 Fort Smith, AR 72903 **Production Run: Date Collected:** 04/15/2024 License: ADH 113 License: 00065C 4060H20240329GP2-2 **Date Received:** 04/15/2024 **Cultivar (Strain) or Sample Description:** Grape Pie #2 **Date Completed:** 04/17/2024

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

Analysis Date/Time: 04/16/2024 1650 (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)	LOQ (µg/kg)	<u>Action Level</u> (μg/kg)
Arsenic (As)	-	59.3	93.9	200
Cadmium (Cd)	-	59.3	93.9	200
Lead (Pb)	-	59.3	93.9	500
Mercury (Hg)	-	59.3	93.9	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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License: ADA 05 H273





4060H20240329GP2-2



Date Received: 04/15/2024

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Testing Location:Customer ID: 2161Sample ID: SA37634Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower

232 S. Broadview St. 5601 Old Greenwood Rd Suite C M00065C13135476643 Mass: 19g
Greenbrier, AR 72058 Fort Smith, AR 72903 Production Run: Date Collected: 04/15/2024

Cultivar (Strain) or Sample Description: Grape Pie #2

Date Completed: 04/17/2024

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 04/16/2024 1327 **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	-

License: 00065C



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)

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