

**SUMMARY OF ANALYSIS (SAMPLE ID: SA35165)**

<b>Testing Location:</b> Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADH 113	<b>Customer ID:</b> 2168 River Valley Relief MIPS 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 License: 00065C	<b>Order ID:</b> OR10439 <b>Lot Number:</b> M00065C13246947658 <b>Production Run:</b> E20230501CBSLC01	<b>Sample Type:</b> Primary <b>Matrix:</b> Concentrate <b>Mass:</b> 4g <b>Date Collected:</b> 05/08/2023 <b>Date Received:</b> 05/08/2023
<b>Cultivar (Strain) or Sample Description:</b> Crunch Berries Hybrid Live Resin .5g Cart			<b>Date Completed:</b> 05/11/2023

\*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.

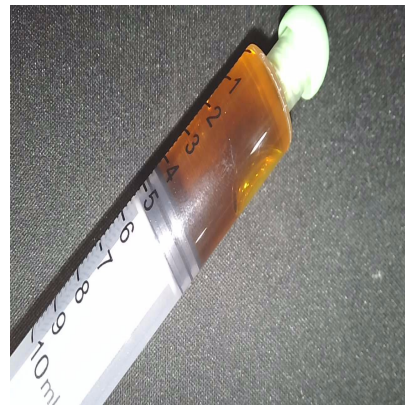
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

<b>Cannabinoids (Top 3)</b>	<b>(%)</b>	<b>mg/g</b>
Δ9-THC	57.3	573
THCA	10.4	104
CBD	3.93	39.3
TOTAL CBD	3.93	39.3
TOTAL THC	66.4	664
TOTAL CANNABINOIDS	79.6	796

<b>Terpenes (Top 5)</b>	<b>(%)</b>	<b>µg/g</b>
d-Limonene	0.810	8100
β-Caryophyllene	0.509	5090
Terpinolene	0.412	4120
Linalool	0.374	3740
β-Myrcene	0.366	3660
TOTAL TERPENES	3.86	38600

<b>Contaminants</b>	<b>PASS/FAIL</b>
Heavy Metals:	<b>PASS</b>
Microbiology:	<b>PASS</b>
Pesticides:	<b>PASS</b>
Residual Solvents:	<b>PASS</b>

**Sample Picture Upon Receipt**



Scan the QR code to verify results.

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**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35165)**

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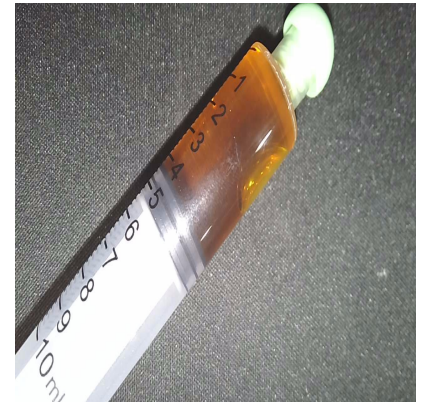
**CANNABINOID (POTENCY) PROFILE (SOP: SOP-CANN-001)**

**Analysis Date/Time:** 05/09/2023 1804  
**Analyst:** PW

**Method:** HPLC/DAD  
**Instrument:** Agilent 1100

**Moisture Content (%):** -  
**Water Activity (aw):** -

<u>Cannabinoid</u>	<u>Result (%)</u>	<u>Result (mg/g)</u>	<u>LOD (mg/g)</u>	<u>LOQ (mg/g)</u>	<u>Result (mg/mL)</u>	<u>Per Serving (mg)</u>	<u>Per Unit (mg)</u>
CBC	ND	ND	0.531	1.24	-	-	-
CBCA	ND	ND	1.65	3.85	-	-	-
CBD	3.93	39.3	3.75	8.75	-	39.3	39.3
CBDV	<LOQ	<LOQ	1.38	3.22	-	-	-
CBDVA	ND	ND	1.60	3.74	-	-	-
CBG	2.60	26.0	2.43	5.68	-	26.0	26.0
CBGA	3.75	37.5	1.74	4.07	-	37.5	37.5
CBL	0.902	9.02	2.81	6.56	-	9.02	9.02
CBN	ND	ND	1.29	3.02	-	-	-
CBNA	ND	ND	1.39	3.25	-	-	-
Δ9-THC	57.3	573	1.55	3.61	-	573	573
Δ8-THC	ND	ND	2.42	5.64	-	-	-
THCA	10.4	104	0.839	1.96	-	104	104
THCV	0.725	7.25	2.01	4.69	-	7.25	7.25
THCVA	ND	ND	0.643	1.50	-	-	-
<b>TOTAL</b>	<b>79.6</b>	<b>796</b>				<b>796</b>	<b>796</b>
<b>TOTAL CBC</b>	-	-				-	-
<b>TOTAL CBD</b>	3.93	39.3				39.3	39.3
<b>TOTAL CBDV</b>	-	-				-	-
<b>TOTAL CBG</b>	5.89	58.9				58.9	58.9
<b>TOTAL CBN</b>	-	-				-	-
<b>TOTAL THC</b>	66.4	664				664	664
<b>TOTAL THCV</b>	0.725	7.25				7.25	7.25



**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 THCV = (THCVA x 0.867) + THCVA

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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<b>Cultivar (Strain) or Sample Description:</b> Crunch Berries Hybrid Live Resin .5g Cart			<b>Date Completed:</b> 05/11/2023

**TERPENOID PROFILE**

**Analysis Date/Time:** 05/10/2023 1514  
**Analyst:** KF

**Method:** GC/MS  
**Instrument:** Agilent 7890/5975

**Deviations from SOP:**  
None

<u>Terpene</u>	<u>Result (µg/g)</u>	<u>Result (%)</u>	
α-Bisabolol	1260	0.126	█
Camphene	726	0.0726	█
δ-3-Carene	586	0.0586	█
β-Caryophyllene	5090	0.509	█
Caryophyllene oxide	777	0.0777	█
p-Cymene	-	-	
Eucalyptol	268	0.0268	█
Geraniol	-	-	
Guaiol	974	0.0974	█
α-Humulene	2340	0.234	█
Isopulegol	-	-	
d-Limonene	8100	0.810	█
Linalool	3740	0.374	█
β-Myrcene	3660	0.366	█
cis-Nerolidol	-	-	
trans-Nerolidol	872	0.0872	█
α-Ocimene	-	-	
β-Ocimene	878	0.0878	█
α-Pinene	2330	0.233	█
β-Pinene	1420	0.142	█
α-Terpinene	715	0.0715	█
γ-Terpinene	680	0.0680	█
Terpinolene	4120	0.412	█
<b>TOTAL</b>	<b>38600</b>	<b>3.86</b>	



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

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"-" Not detected above RL.

**Reporting Limit (µg/g): 46.5**

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



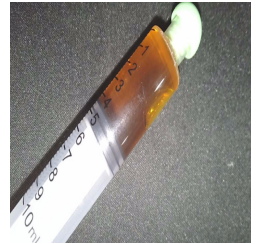
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**RESIDUAL SOLVENT PROFILE (SOP: SOP-RS-001)**

<b>Analysis Date/Time:</b> 05/10/2023 2234	<b>Method:</b> HS/GC/MS	<b>Deviations from SOP:</b>
<b>Analyst:</b> KF	<b>Instrument:</b> 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)	-	39.9	79.8	5000	n-Heptane (142-82-5)	-	39.9	79.8	5000
Acetonitrile (75-5-8)	-	39.9	79.8	410	n-Hexane (110-54-3)	-	14.0	27.9	290
Benzene (71-43-2)	-	0.399	0.798	2	Isobutane (75-28-5)	-	39.9	79.8	5000
n-Butane (106-97-2)	-	39.9	79.8	5000	Isopropanol (67-63-0)	-	39.9	79.8	5000
1-Butanol (71-36-3)	-	39.9	79.8	5000	Isopropyl acetate (108-21-4)	-	39.9	79.8	5000
2-Butanol (78-92-2)	-	39.9	79.8	5000	Isopropyl benzene (98-82-8)	-	3.99	7.98	70
2-Butanone (78-93-3)	-	39.9	79.8	5000	Methanol (67-56-1)	-	39.9	79.8	3000
Cyclohexane (110-82-7)	-	39.9	79.8	3880	2-Methylbutane (78-78-4)	-	39.9	79.8	5000
1,2-Dimethoxyethane (110-71-4)	-	3.99	7.98	100	Methylene chloride (75-9-2)	-	39.9	79.8	600
N,N-Dimethylacetamide (127-19-5)	-	39.9	79.8	1090	2-Methylpentane (107-83-5)	-	14.0	27.9	290
2,2-Dimethylbutane (75-83-2)	-	14.0	27.9	290	3-Methylpentane (96-10-0)	-	14.0	27.9	290
2,3-Dimethylbutane (79-29-8)	-	14.0	27.9	290	n-Pentane (109-66-0)	-	39.9	79.8	5000
N,N-Dimethylformamide (68-12-2)	-	39.9	79.8	880	1-Pentanol (71-41-0)	-	39.9	79.8	5000
Dimethylsulfoxide (67-68-5)	-	39.9	79.8	5000	n-Propane (74-98-6)	-	39.9	79.8	5000
1,4-Dioxane (123-91-1)	-	39.9	79.8	380	1-Propanol (71-23-8)	-	39.9	79.8	5000
Ethanol (64-17-5)	-	39.9	79.8	5000	Pyridine (110-86-1)	-	14.0	27.9	200
2-Ethoxyethanol (110-80-5)	-	14.0	27.9	160	Tetrahydrofuran (109-99-9)	-	39.9	79.8	720
Ethyl ether (60-29-7)	-	39.9	79.8	5000	Tetramethylene sulfone (126-33-0)	-	14.0	27.9	160
Ethyl acetate (141-78-6)	-	39.9	79.8	5000	Toluene (108-88-3)	-	39.9	79.8	890
Ethyl benzene (100-41-4)	-	39.9	79.8	2170	o-Xylene (95-47-6)	-	39.9	79.8	2170
Ethylene glycol (107-21-1)	-	39.9	79.8	620	m,p-Xylene (108-38-3 or 106-42-3)	-	39.9	79.8	2170
Ethylene oxide (75-21-8)	-	3.99	7.98	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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*Kyle W. Felling*  
Kyle W. Felling, Ph.D.  
Laboratory Director



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

**Analysis Date/Time:** 05/10/2023 1512  
**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)	-	0.0465	0.372	0.5	Kresoxim-methyl (143390-89-0)	-	0.0465	0.372	0.4
Acephate (30560-19-1)	-	0.0465	0.372	0.4	Malathion (121-75-5)	-	0.0465	0.372	0.2
Acetamiprid (135410-20-7)	-	0.0465	0.372	0.2	Metalaxyl (57837-19-1)	-	0.0465	0.372	0.2
Aldicarb (116-06-3)	-	0.0465	0.372	0.4	Methiocarb (2032-65-7)	-	0.0465	0.372	0.2
Azoxystrobin (131860-33-8)	-	0.0465	0.372	0.2	Methomyl (16752-77-5)	-	0.0465	0.372	0.4
Bifenazate (149877-41-8)	-	0.0465	0.372	0.2	Methyl parathion (298-0-0)	-	0.0465	0.372	0.2
Bifenthrin (82657-04-3)	-	0.0465	0.372	0.2	MGK 264 (113-48-4)	-	0.0465	0.372	0.2
Boscalid (188425-85-6)	-	0.0465	0.372	0.4	Myclobutanil (88671-89-0)	-	0.0465	0.372	0.2
Carbaryl (63-25-2)	-	0.0465	0.372	0.2	Naled (300-76-5)	-	0.0465	0.372	0.5
Carbofuran (1563-66-2)	-	0.0465	0.372	0.2	Oxamyl (23135-22-0)	-	0.0465	0.372	1
Chlorantraniliprole (800008-45-7)	-	0.0465	0.372	0.2	Paclitaxel (76738-62-0)	-	0.0465	0.372	0.4
Chlorfenapyr (122453-73-0)	-	0.0465	0.372	1	Permethrins (52645-53-1)	-	0.0465	0.372	0.2
Chlorpyrifos (2921-88-2)	-	0.0465	0.372	0.2	Phosmet (732-11-6)	-	0.0465	0.372	0.2
Clofentezine (74115-24-5)	-	0.0465	0.372	0.2	Piperonyl butoxide (51-03-6)	-	0.0465	0.372	2
Cyfluthrin (68359-37-5)	-	0.0465	0.372	1	Prallethrin (2331-36-9)	-	0.0465	0.372	0.2
Cypermethrin (52315-07-8)	-	0.0465	0.372	1	Propiconazole (60207-90-1)	-	0.0465	0.372	0.4
Daminozide (1596-84-5)	-	0.0465	0.372	1	Propoxur (114-26-1)	-	0.0465	0.372	0.2
DDVP (62-73-7)	-	0.0465	0.372	0.1	Pyrethrins (8003-34-7)	-	0.0465	0.372	1
Diazinon (333-41-5)	-	0.0465	0.372	0.2	Pyridaben (96489-71-3)	-	0.0465	0.372	0.2
Dimethoate (60-51-5)	-	0.0465	0.372	0.2	Spinosad (168316-95-8)	-	0.0465	0.372	0.2
Ethoprophos (13194-48-4)	-	0.0465	0.372	0.2	Spiromesifen (283594-90-1)	-	0.0465	0.372	0.2
Etofenprox (80844-07-1)	-	0.0465	0.372	0.4	Spirotetramat (203313-25-1)	-	0.0465	0.372	0.2
Etoxazole (153233-91-1)	-	0.0465	0.372	0.2	Spiroxamine (118134-30-8)	-	0.0465	0.372	0.4
Fenoxycarb (72490-01-8)	-	0.0465	0.372	0.2	Tebuconazole (80443-41-0)	-	0.0465	0.372	0.4
(E)-Fenpyroximate (134098-61-6)	-	0.0465	0.372	0.4	Thiacloprid (111988-49-9)	-	0.0465	0.372	0.2
Fipronil (120068-37-3)	-	0.0465	0.372	0.4	Thiamethoxam (153719-23-4)	-	0.0465	0.372	0.2
Fonicamid (158062-67-0)	-	0.0465	0.372	1	Trifloxystrobin (141517-21-7)	-	0.0465	0.372	0.2
Fludioxinil (131341-86-1)	-	0.0465	0.372	0.4					
Hexythiazox (78587-05-0)	-	0.0465	0.372	1					
Imazalil (35554-44-0)	-	0.0465	0.372	0.2					
Imidacloprid (138261-41-3)	-	0.0465	0.372	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.  
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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	Sythane	Propiconazole	Tilt
DDVP	Dichlorvos	Naled	Dibrom	Propoxur	Baygon
Ethoprophos	Prophos	Phosmet	Imidan		

**REPORT OF LABORATORY ANALYSIS**

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

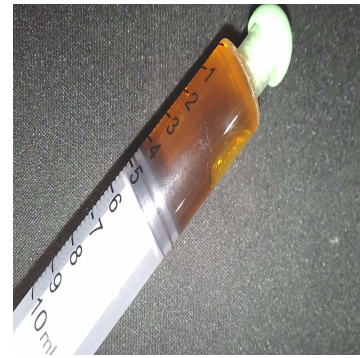
**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35165)**

<b>Testing Location:</b> Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADH 113	<b>Customer ID:</b> 2168 River Valley Relief MIPS 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 License: 00065C	<b>Order ID:</b> OR10439 <b>Lot Number:</b> M00065C13246947658 <b>Production Run:</b> E20230501CBSLC01	<b>Sample Type:</b> Primary <b>Matrix:</b> Concentrate <b>Mass:</b> 4g <b>Date Collected:</b> 05/08/2023 <b>Date Received:</b> 05/08/2023
<b>Cultivar (Strain) or Sample Description:</b> Crunch Berries Hybrid Live Resin .5g Cart			<b>Date Completed:</b> 05/11/2023

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

**Analysis Date/Time:** 05/10/2023 1535 (ICP/OES)      **Method:** ICP/OES      **Deviations from SOP:**  
**Analysis Date/Time:** - (DMA)      **Instrument:** Agilent 720-ES      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)	-	56.1	88.8	200
Cadmium (Cd)	-	56.1	88.8	200
Lead (Pb)	-	56.1	88.8	500
Mercury (Hg)	-	56.1	88.8	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**



"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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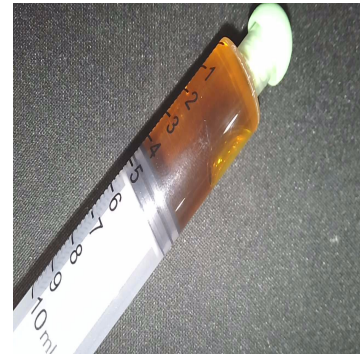
**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35165)**

<b>Testing Location:</b> Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADA 05_H273	<b>Customer ID:</b> 2168 River Valley Relief MIPS 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 License: 00065C	<b>Sample ID:</b> SA35165 <b>Lot Number:</b> M00065C13246947658 <b>Production Run:</b> E20230501CBSLC01	<b>Sample Type:</b> Primary <b>Matrix:</b> Concentrate <b>Mass:</b> 4g <b>Date Collected:</b> 05/08/2023 <b>Date Received:</b> 05/08/2023
<b>Cultivar (Strain) or Sample Description:</b> Crunch Berries Hybrid Live Resin .5g Cart			<b>Date Completed:</b> 05/11/2023

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

**Analysis Date/Time:** 20230510 1113      **Method:** Hardy Diagnostics CompactDry      **Deviations from SOP:**  
**Analyst:** PW      **Instrument:** Thermo Incubator      None

<u>Bacteria/Microbe</u>	<u>Result (CFU/g)</u>	<u>Action Level (CFU/g)</u>
Aerobic Plate Count	NT	-
Coliforms, Total	Present	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** (Green background)

**RESULT > AL** (Red background)

**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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