F.A.S.T. LABORATORIES/RESEARCH

ACCREDITED CERTIFICATE #4473.01

ASA PFC Laboratory

Analyzed on behalf of:

RVR RIVER VALLEY RELIEF

SUMMARY OF ANALYSIS (SAMPLE ID: SA35408)

Testing Location:	**Customer ID:** 2168	**Order ID:** OR10488	**Sample Type:** Primary
Arkansas	River Valley Relief MIPS	**Lot Number:**	**Matrix:** Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13240633236	**Mass:** 4G
Greenbrier, AR 72058	Fort Smith, AR 72903	**Production Run:**	**Date Collected:** 06/12/2023
License: ADH 113	License: 00065C	E20230606O43HR02	**Date Received:** 06/12/2023

Cultivar (Strain) or Sample Description: Orange 43 Hybrid HTFSE Resin .5g Cart — **Date Completed:** 06/14/2023

*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 (%)	Water Activity (aw)	PASS/FAIL
Not Tested	Not Tested	PASS

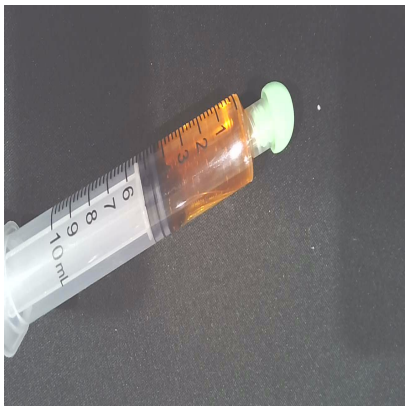
Moisture content/water activity action levels are referenced from the State of Arkansas MMJ testing guidelines.
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

Cannabinoids (Top 3)	(%)	mg/g
THCA	36.2	362
Δ9-THC	35.3	353
CBGA	3.93	39.3
TOTAL CBD	0.303	3.03
TOTAL THC	67.0	670
TOTAL CANNABINOIDS	80.0	800

Terpenes (Top 5)	(%)	µg/g
Terpinolene	0.508	5080
β-Myrcene	0.270	2700
d-Limonene	0.245	2450
β-Caryophyllene	0.221	2210
α-Pinene	0.117	1170
TOTAL TERPENES	1.84	18400

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, Ph.D.
Laboratory Director

www.FASTLaboratories.com

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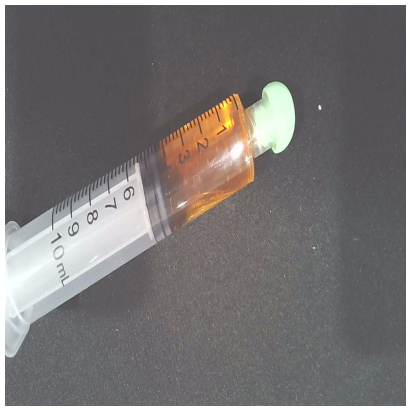
CANNABINOID (POTENCY) PROFILE (SOP: SOP-CANN-001)

Analysis Date/Time: 06/13/2023 1337
Analyst: PW
Method: HPLC/DAD
Instrument: Agilent 1100
Moisture Content (%): -
Water Activity (aw): -

Cannabinoid	Result (%)	Result (mg/g)	LOD (mg/g)	LOQ (mg/g)	Result (mg/mL)	Per Serving (mg)	Per Unit (mg)
CBC	0.0968	0.968	0.0999	0.233	-	0.968	0.968
CBCA	1.06	10.6	0.310	0.724	-	10.6	10.6
CBD	ND	ND	0.705	1.64	-	-	-
CBDA	0.345	3.45	0.259	0.606	-	3.45	3.45
CBDV	ND	ND	0.113	0.264	-	-	-
CBDVA	ND	ND	0.301	0.704	-	-	-
CBG	1.68	16.8	0.457	1.07	-	16.8	16.8
CBGA	3.93	39.3	0.649	0.765	-	39.3	39.3
CBL	0.911	9.11	0.528	1.23	-	9.11	9.11
CBN	0.0677	0.677	0.243	0.567	-	0.677	0.677
CBNA	ND	ND	0.262	0.611	-	-	-
Δ9-THC	35.3	353	0.291	0.678	-	353	353
Δ8-THC	ND	ND	0.454	1.06	-	-	-
THCA	36.2	362	0.158	0.369	-	362	362
THCV	0.176	1.76	0.379	0.882	-	1.76	1.76
THCVA	0.252	2.52	0.121	0.281	-	2.52	2.52
TOTAL	80.0	800			-	800	800
TOTAL CBC	1.03	10.3			-	10.3	10.3
TOTAL CBD	0.303	3.03			-	3.03	3.03
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	5.14	51.4			-	51.4	51.4
TOTAL CBN	0.0677	0.677			-	0.677	0.677
TOTAL THC	67.0	670			-	670	670
TOTAL THCV	0.395	3.95			-	3.95	3.95



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.

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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Laboratory Director

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RVR RIVER VALLEY RELIEF

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License: ADH 113	License: 00065C	E20230606O43HR02	**Date Received:** 06/12/2023

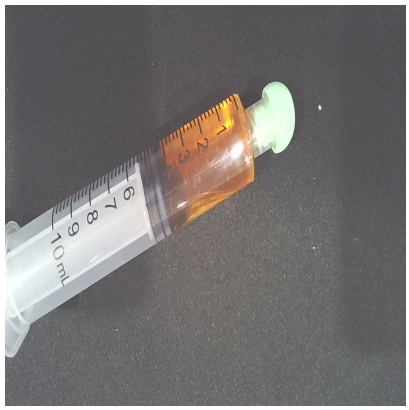
Cultivar (Strain) or Sample Description: Orange 43 Hybrid HTFSE Resin .5g Cart — **Date Completed:** 06/14/2023

TERPENOID PROFILE

Analysis Date/Time:06/13/2023 1605 — **Method:** GC/MS — **Deviations from SOP:**

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

Terpene	Result (µg/g)	Result (%)
α-Bisabolol	548	0.0548
Camphene	140	0.0140
δ-3-Carene	152	0.0152
β-Caryophyllene	2210	0.221
Caryophyllene oxide	-	-
p-Cymene	-	-
Eucalyptol	46.6	0.00466
Geraniol	-	-
Guaiol	23.3	0.00233
α-Humulene	746	0.0746
Isopulegol	-	-
d-Limonene	2450	0.245
Linalool	629	0.0629
β-Myrcene	2700	0.270
cis-Nerolidol	-	-
trans-Nerolidol	455	0.0455
α-Ocimene	-	-
β-Ocimene	723	0.0723
α-Pinene	1170	0.117
β-Pinene	734	0.0734
α-Terpinene	303	0.0303
γ-Terpinene	280	0.0280
Terpinolene	5080	0.508
TOTAL	18400	1.84



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

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"-" Not detected above RL.

Reporting Limit (µg/g): 43.7

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Laboratory Director

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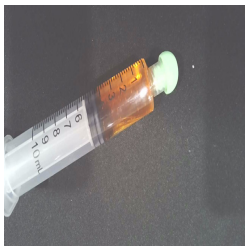
RESIDUAL SOLVENT PROFILE (SOP: SOP-RS-001)

Analysis Date/Time: 06/13/2023 2325 — **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)
Acetone (67-64-1)	-	37.0	74.0	5000
Acetonitrile (75-5-8)	-	37.0	74.0	410
Benzene (71-43-2)	-	0.370	0.740	2
n-Butane (106-97-2)	663	37.0	74.0	5000
1-Butanol (71-36-3)	-	37.0	74.0	5000
2-Butanol (78-92-2)	-	37.0	74.0	5000
2-Butanone (78-93-3)	-	37.0	74.0	5000
Cyclohexane (110-82-7)	-	37.0	74.0	3880
1,2-Dimethoxyethane (110-71-4)	-	3.70	7.40	100
N,N-Dimethylacetamide (127-19-5)	-	37.0	74.0	1090
2,2-Dimethylbutane (75-83-2)	-	13.0	25.9	290
2,3-Dimethylbutane (79-29-8)	-	13.0	25.9	290
N,N-Dimethylformamide (68-12-2)	-	37.0	74.0	880
Dimethylsulfoxide (67-68-5)	-	37.0	74.0	5000
1,4-Dioxane (123-91-1)	-	37.0	74.0	380
Ethanol (64-17-5)	1240	37.0	74.0	5000
2-Ethoxyethanol (110-80-5)	-	13.0	25.9	160
Ethyl ether (60-29-7)	-	37.0	74.0	5000
Ethyl acetate (141-78-6)	-	37.0	74.0	5000
Ethyl benzene (100-41-4)	-	37.0	74.0	2170
Ethylene glycol (107-21-1)	-	37.0	74.0	620
Ethylene oxide (75-21-8)	-	3.70	7.40	50

Solvent	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)
n-Heptane (142-82-5)	-	37.0	74.0	5000
n-Hexane (110-54-3)	-	13.0	25.9	290
Isobutane (75-28-5)	-	37.0	74.0	5000
Isopropanol (67-63-0)	-	37.0	74.0	5000
Isopropyl acetate (108-21-4)	-	37.0	74.0	5000
Isopropyl benzene (98-82-8)	-	3.70	7.40	70
Methanol (67-56-1)	-	37.0	74.0	3000
2-Methylbutane (78-78-4)	-	37.0	74.0	5000
Methylene chloride (75-9-2)	-	37.0	74.0	600
2-Methylpentane (107-83-5)	-	13.0	25.9	290
3-Methylpentane (96-10-0)	-	13.0	25.9	290
n-Pentane (109-66-0)	-	37.0	74.0	5000
1-Pentanol (71-41-0)	-	37.0	74.0	5000
n-Propane (74-98-6)	-	37.0	74.0	5000
1-Propanol (71-23-8)	-	37.0	74.0	5000
Pyridine (110-86-1)	-	13.0	25.9	200
Tetrahydrofuran (109-99-9)	-	37.0	74.0	720
Tetramethylene sulfone (126-33-0)	-	13.0	25.9	160
Toluene (108-88-3)	-	37.0	74.0	890
o-Xylene (95-47-6)	-	37.0	74.0	2170
m,p-Xylene (108-38-3 or 106-42-3)	-	37.0	74.0	2170
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.

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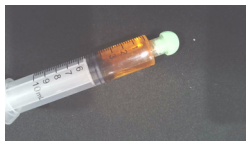
PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 06/13/2023 1453 — **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)	-	0.0437	0.350	0.5
Acephate (30560-19-1)	-	0.0437	0.350	0.4
Acequinocyl (57960-19-7)	-	0.0437	0.350	2
Acetamiprid (135410-20-7)	-	0.0437	0.350	0.2
Aldicarb (116-06-3)	-	0.0437	0.350	0.4
Azoxystrobin (131860-33-8)	-	0.0437	0.350	0.2
Bifenazate (149877-41-8)	-	0.0437	0.350	0.2
Bifenthrin (82657-04-3)	-	0.0437	0.350	0.2
Boscalid (188425-85-6)	-	0.0437	0.350	0.4
Carbaryl (63-25-2)	-	0.0437	0.350	0.2
Carbofuran (1563-66-2)	-	0.0437	0.350	0.2
Chlorantraniliprole (800008-45-7)	-	0.0437	0.350	0.2
Chlorfenapyr (122453-73-0)	-	0.0437	0.350	1
Chlorpyrifos (2921-88-2)	-	0.0437	0.350	0.2
Clofentezine (74115-24-5)	-	0.0437	0.350	0.2
Cyfluthrin (68359-37-5)	-	0.0437	0.350	1
Cypermethrin (52315-07-8)	-	0.0437	0.350	1
Daminozide (1596-84-5)	-	0.0437	0.350	1
DDVP (62-73-7)	-	0.0437	0.350	0.1
Diazinon (333-41-5)	-	0.0437	0.350	0.2
Dimethoate (60-51-5)	-	0.0437	0.350	0.2
Ethoprophos (13194-48-4)	-	0.0437	0.350	0.2
Etofenprox (80844-07-1)	-	0.0437	0.350	0.4
Etoxazole (153233-91-1)	-	0.0437	0.350	0.2
Fenoxycarb (72490-01-8)	-	0.0437	0.350	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0437	0.350	0.4
Fipronil (120068-37-3)	-	0.0437	0.350	0.4
Flonicamid (158062-67-0)	-	0.0437	0.350	1
Fludioxinil (131341-86-1)	-	0.0437	0.350	0.4
Hexythiazox (78587-05-0)	-	0.0437	0.350	1
Imazalil (35554-44-0)	-	0.0437	0.350	0.2
Imidacloprid (138261-41-3)	-	0.0437	0.350	0.4

Pesticide	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)
Kresoxim-methyl (143390-89-0)	-	0.0437	0.350	0.4
Malathion (121-75-5)	-	0.0437	0.350	0.2
Metalaxyl (57837-19-1)	-	0.0437	0.350	0.2
Methiocarb (2032-65-7)	-	0.0437	0.350	0.2
Methomyl (16752-77-5)	-	0.0437	0.350	0.4
Methyl parathion (298-0-0)	-	0.0437	0.350	0.2
MGK 264 (113-48-4)	-	0.0437	0.350	0.2
Myclobutanil (88671-89-0)	-	0.0437	0.350	0.2
Naled (300-76-5)	-	0.0437	0.350	0.5
Oxamyl (23135-22-0)	-	0.0437	0.350	1
Paclobutrazol (76738-62-0)	-	0.0437	0.350	0.4
Permethrins (52645-53-1)	-	0.0437	0.350	0.2
Phosmet (732-11-6)	-	0.0437	0.350	0.2
Piperonyl butoxide (51-03-6)	-	0.0437	0.350	2
Prallethrins (2331-36-9)	-	0.0437	0.350	0.2
Propiconazole (60207-90-1))	-	0.0437	0.350	0.4
Propoxur (114-26-1)	-	0.0437	0.350	0.2
Pyrethrins (8003-34-7)	-	0.0437	0.350	1
Pyridaben (96489-71-3)	-	0.0437	0.350	0.2
Spinosad (168316-95-8)	-	0.0437	0.350	0.2
Spiromesifen (283594-90-1)	-	0.0437	0.350	0.2
Spirotetramat (203313-25-1)	-	0.0437	0.350	0.2
Spiroxamine (118134-30-8)	-	0.0437	0.350	0.4
Tebuconazole (80443-41-0)	-	0.0437	0.350	0.4
Thiacloprid (111988-49-9)	-	0.0437	0.350	0.2
Thiamethoxam (153719-23-4)	-	0.0437	0.350	0.2
Trifloxystrobin (141517-21-7)	-	0.0437	0.350	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.

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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		

Kyle W. Felling, Ph.D.
Laboratory Director

Analyzed on behalf of:

CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35408)

Testing Location:	**Customer ID:** 2168	**Order ID:** OR10488	**Sample Type:** Primary
Arkansas	River Valley Relief MIPS	**Lot Number:**	**Matrix:** Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13240633236	**Mass:** 4G
Greenbrier, AR 72058	Fort Smith, AR 72903	**Production Run:**	**Date Collected:** 06/12/2023
License: ADH 113	License: 00065C	E20230606O43HR02	**Date Received:** 06/12/2023
Cultivar (Strain) or Sample Description: Orange 43 Hybrid HTFSE Resin .5g Cart			**Date Completed:** 06/14/2023

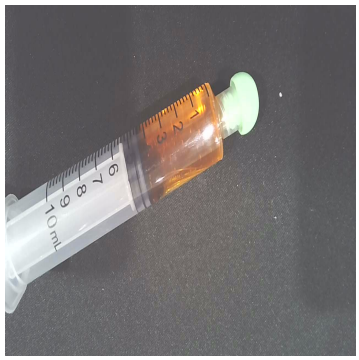
HEAVY METAL PROFILE (SOP: SOP-ICP-200.6)

Analysis Date/Time: 06/13/2023 1501 (ICP/OES)
Analysis Date/Time: - (DMA)
Analyst: KF

Method: ICP/MS
Instrument: Agilent 7500ce

Deviations from SOP:
None

Heavy Metal	Result (µg/kg)	LOD (µg/kg)	LOQ (µg/kg)	Action Level (µg/kg)
Arsenic (As)	-	59.8	94.6	200
Cadmium (Cd)	-	59.8	94.6	200
Lead (Pb)	-	59.8	94.6	500
Mercury (Hg)	-	59.8	94.6	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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Laboratory Director

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ACCREDITED CERTIFICATE #4473.01

ASA PFC Laboratory

Analyzed on behalf of:

RVR RIVER VALLEY RELIEF

CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35408)

Testing Location:	**Customer ID:** 2168	**Sample ID:** SA35408	**Sample Type:** Primary
Arkansas	River Valley Relief MIPS	**Lot Number:**	**Matrix:** Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13240633236	**Mass:** 4G
Greenbrier, AR 72058	Fort Smith, AR 72903	**Production Run:**	**Date Collected:** 06/12/2023
License: ADA 05_H273	License: 00065C	E20230606O43HR02	**Date Received:** 06/12/2023
Cultivar (Strain) or Sample Description: Orange 43 Hybrid HTFSE Resin .5g Cart			**Date Completed:** 06/14/2023

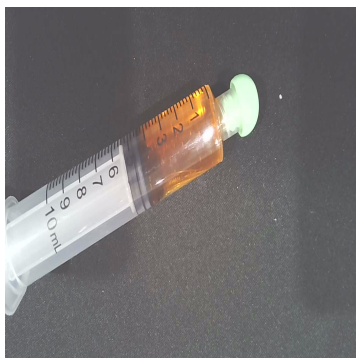
MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 06/14/2023 0930
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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