

SUMMARY OF ANALYSIS (SAMPLE ID: SA32160)

Testing Location: Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADH 113	Customer ID: 2168 River Valley Relief MIPS 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 License: 00065C	Order ID: OR9998 Lot Number: M00065C13243075898 Production Run: E20220810RFC1	Sample Type: Primary Matrix: Concentrate Mass: 4g Date Collected: 08/31/2022 Date Received: 09/01/2022
Cultivar (Strain) or Sample Description: Race Fuel Hybrid Cured Resin .5g Cart			Date Completed: 09/06/2022

*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

N/A

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

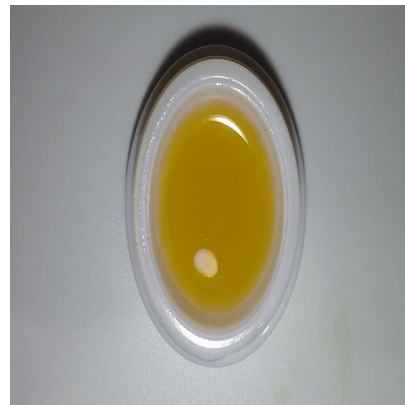
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

Cannabinoids (Top 3)	(%)	mg/g
Δ9-THC	63.9	639
THCA	9.86	98.6
CBGA	2.20	22.0
TOTAL CBD	0.527	5.27
TOTAL THC	72.5	725
TOTAL CANNABINOIDS	78.7	787

Terpenes (Top 5)	(%)	µg/g
β-Caryophyllene	0.852	8520
d-Limonene	0.410	4100
α-Humulene	0.303	3030
α-Bisabolol	0.249	2490
Linalool	0.214	2140
TOTAL TERPENES	2.54	25400

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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CERTIFICATE OF ANALYSIS (SAMPLE ID: SA32160)

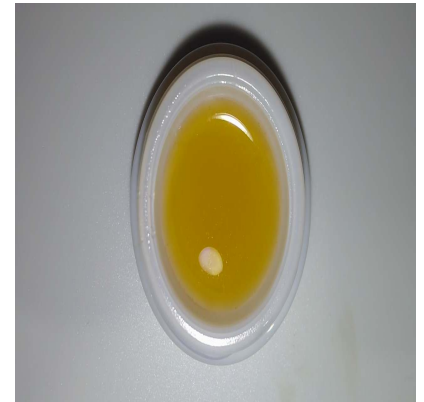
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Cultivar (Strain) or Sample Description: Race Fuel Hybrid Cured Resin .5g Cart **Date Completed:** 09/06/2022

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

Analysis Date/Time: 9/1/2022 1342 **Method:** HPLC/DAD **Moisture Content (%):** -
Analyst: PW **Instrument:** Agilent 1100 **Water Activity (aw):** -

<u>Cannabinoid</u>	<u>Result (%)</u>	<u>UM (+/-%)</u>	<u>Result (mg/g)</u>	<u>LOQ (mg/g)</u>	<u>Result (mg/mL)</u>	<u>Per Serving (mg)</u>	<u>Per Unit (mg)</u>
CBC	0.417	0.0584	4.17	2.11	-	4.17	4.17
CBCA	-	-	-	2.11	-	-	-
CBD	0.527	0.0474	5.27	2.11	-	5.27	5.27
CBDA	-	-	-	2.11	-	-	-
CBDV	-	-	-	2.11	-	-	-
CBDVA	-	-	-	2.11	-	-	-
CBG	1.86	0.241	18.6	2.11	-	18.6	18.6
CBGA	2.20	0.242	22.0	2.11	-	22.0	22.0
CBL	-	-	-	2.11	-	-	-
CBN	-	-	-	2.11	-	-	-
CBNA	-	-	-	2.11	-	-	-
Δ9-THC	63.9	10.9	639	2.11	-	639	639
Δ8-THC	-	-	-	2.11	-	-	-
THCA	9.86	0.986	98.6	2.11	-	98.6	98.6
THCV	-	-	-	2.11	-	-	-
THCVA	-	-	-	2.11	-	-	-
TOTAL	78.7	12.4	787			787	787
TOTAL CBC	0.417	0.0584	4.17			4.17	4.17
TOTAL CBD	0.527	0.0474	5.27			5.27	5.27
TOTAL CBDV	-	-	-			-	-
TOTAL CBG	3.79	0.454	37.9			37.9	37.9
TOTAL CBN	-	-	-			-	-
TOTAL THC	72.5	11.7	725			725	725
TOTAL THCV	-	-	-			-	-



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) + THC

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



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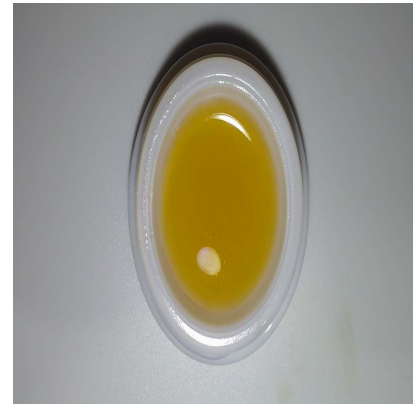
TERPENOID PROFILE

Analysis Date/Time: 9/2/2022 1259
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	2490	0.249	■
Camphene	216	0.0216	
δ-3-Carene	-	-	
β-Caryophyllene	8520	0.852	■
Caryophyllene oxide	85.8	0.00858	
p-Cymene	-	-	
Eucalyptol	-	-	
Geraniol	-	-	
Guaiol	62.0	0.00620	
α-Humulene	3030	0.303	■
Isopulegol	-	-	
d-Limonene	4100	0.410	■
Linalool	2140	0.214	■
β-Myrcene	1240	0.124	■
cis-Nerolidol	858	0.0858	■
trans-Nerolidol	297	0.0297	
α-Ocimene	128	0.0128	
β-Ocimene	92.1	0.00921	
α-Pinene	600	0.0600	■
β-Pinene	849	0.0849	■
α-Terpinene	31.7	0.00317	
γ-Terpinene	25.6	0.00256	
Terpinolene	608	0.0608	■
TOTAL	25400	2.54	



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

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"-" Not detected above RL.

Reporting Limit (µg/g): 18.0

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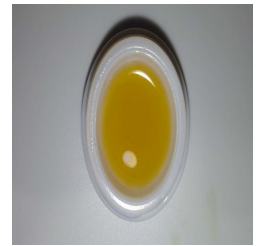
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RESIDUAL SOLVENT PROFILE (SOP: SOP-RS-001)

Analysis Date/Time: 9/2/2022 0245	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)	-	37.0	73.9	5000	n-Heptane (142-82-5)	-	37.0	73.9	5000
Acetonitrile (75-5-8)	-	37.0	73.9	410	n-Hexane (110-54-3)	-	12.9	25.9	290
Benzene (71-43-2)	-	0.370	0.739	2	Isobutane (75-28-5)	-	37.0	73.9	5000
n-Butane (106-97-2)	-	37.0	73.9	5000	Isopropanol (67-63-0)	-	37.0	73.9	5000
1-Butanol (71-36-3)	-	37.0	73.9	5000	Isopropyl acetate (108-21-4)	-	37.0	73.9	5000
2-Butanol (78-92-2)	-	37.0	73.9	5000	Isopropyl benzene (98-82-8)	-	3.70	7.39	70
2-Butanone (78-93-3)	-	37.0	73.9	5000	Methanol (67-56-1)	-	37.0	73.9	3000
Cyclohexane (110-82-7)	-	37.0	73.9	3880	2-Methylbutane (78-78-4)	-	37.0	73.9	5000
1,2-Dimethoxyethane (110-71-4)	-	3.70	7.39	100	Methylene chloride (75-9-2)	-	37.0	73.9	600
N,N-Dimethylacetamide (127-19-5)	-	37.0	73.9	1090	2-Methylpentane (107-83-5)	-	12.9	25.9	290
2,2-Dimethylbutane (75-83-2)	-	12.9	25.9	290	3-Methylpentane (96-10-0)	-	12.9	25.9	290
2,3-Dimethylbutane (79-29-8)	-	12.9	25.9	290	n-Pentane (109-66-0)	-	37.0	73.9	5000
N,N-Dimethylformamide (68-12-2)	-	37.0	73.9	880	1-Pentanol (71-41-0)	-	37.0	73.9	5000
Dimethylsulfoxide (67-68-5)	-	37.0	73.9	5000	n-Propane (74-98-6)	-	37.0	73.9	5000
1,4-Dioxane (123-91-1)	-	37.0	73.9	380	1-Propanol (71-23-8)	-	37.0	73.9	5000
Ethanol (64-17-5)	-	37.0	73.9	5000	Pyridine (110-86-1)	-	12.9	25.9	200
2-Ethoxyethanol (110-80-5)	-	12.9	25.9	160	Tetrahydrofuran (109-99-9)	-	37.0	73.9	720
Ethyl ether (60-29-7)	-	37.0	73.9	5000	Tetramethylene sulfone (126-33-0)	-	12.9	25.9	160
Ethyl acetate (141-78-6)	-	37.0	73.9	5000	Toluene (108-88-3)	-	37.0	73.9	890
Ethyl benzene (100-41-4)	-	37.0	73.9	2170	o-Xylene (95-47-6)	-	37.0	73.9	2170
Ethylene glycol (107-21-1)	-	37.0	73.9	620	m,p-Xylene (108-38-3 or 106-42-3)	-	37.0	73.9	2170
Ethylene oxide (75-21-8)	-	3.70	7.39	50	Xylenes* (1330-20-7)	-	43.3	86.7	2170



Color Key

RESULT < AL (Green bar)
RESULT > AL (Red bar)

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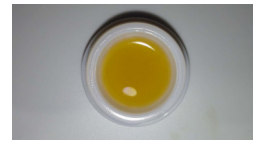
PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 9/2/2022 1050
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)	-	0.0180	0.144	0.5	Kresoxim-methyl (143390-89-0)	-	0.0180	0.144	0.4
Acephate (30560-19-1)	-	0.0180	0.144	0.4	Malathion (121-75-5)	-	0.0180	0.144	0.2
Acetaminocyl (57960-19-7)	0.207	0.0180	0.144	2	Metalaxyl (57837-19-1)	-	0.0180	0.144	0.2
Acetamiprid (135410-20-7)	-	0.0180	0.144	0.2	Methiocarb (2032-65-7)	-	0.0180	0.144	0.2
Aldicarb (116-06-3)	-	0.0180	0.144	0.4	Methomyl (16752-77-5)	-	0.0180	0.144	0.4
Azoxystrobin (131860-33-8)	-	0.0180	0.144	0.2	Methyl parathion (298-0-0)	-	0.0180	0.144	0.2
Bifenazate (149877-41-8)	-	0.0180	0.144	0.2	MGK 264 (113-48-4)	-	0.0180	0.144	0.2
Bifenthrin (82657-04-3)	-	0.0180	0.144	0.2	Myclobutanil (88671-89-0)	-	0.0180	0.144	0.2
Boscalid (188425-85-6)	-	0.0180	0.144	0.4	Naled (300-76-5)	-	0.0180	0.144	0.5
Carbaryl (63-25-2)	-	0.0180	0.144	0.2	Oxamyl (23135-22-0)	-	0.0180	0.144	1
Carbofuran (1563-66-2)	-	0.0180	0.144	0.2	Paclitaxel (76738-62-0)	-	0.0180	0.144	0.4
Chlorantraniliprole (800008-45-7)	-	0.0180	0.144	0.2	Permethrins (52645-53-1)	-	0.0180	0.144	0.2
Chlorfenapyr (122453-73-0)	-	0.0180	0.144	1	Phosmet (732-11-6)	-	0.0180	0.144	0.2
Chlorpyrifos (2921-88-2)	-	0.0180	0.144	0.2	Piperonyl butoxide (51-03-6)	-	0.0180	0.144	2
Clofentezine (74115-24-5)	-	0.0180	0.144	0.2	Prallethrins (2331-36-9)	-	0.0180	0.144	0.2
Cyfluthrin (68359-37-5)	-	0.0180	0.144	1	Propiconazole (60207-90-1)	-	0.0180	0.144	0.4
Cypermethrin (52315-07-8)	-	0.0180	0.144	1	Propoxur (114-26-1)	-	0.0180	0.144	0.2
Daminozide (1596-84-5)	-	0.0180	0.144	1	Pyrethrins (8003-34-7)	-	0.0180	0.144	1
DDVP (62-73-7)	-	0.0180	0.144	0.1	Pyridaben (96489-71-3)	-	0.0180	0.144	0.2
Diazinon (333-41-5)	-	0.0180	0.144	0.2	Spinosad (168316-95-8)	-	0.0180	0.144	0.2
Dimethoate (60-51-5)	-	0.0180	0.144	0.2	Spiromesifen (283594-90-1)	-	0.0180	0.144	0.2
Ethoprophos (13194-48-4)	-	0.0180	0.144	0.2	Spirotetramat (203313-25-1)	-	0.0180	0.144	0.2
Etofenprox (80844-07-1)	-	0.0180	0.144	0.4	Spiroxamine (118134-30-8)	-	0.0180	0.144	0.4
Etoxazole (153233-91-1)	-	0.0180	0.144	0.2	Tebuconazole (80443-41-0)	-	0.0180	0.144	0.4
Fenoxycarb (72490-01-8)	-	0.0180	0.144	0.2	Thiacloprid (111988-49-9)	-	0.0180	0.144	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0180	0.144	0.4	Thiamethoxam (153719-23-4)	-	0.0180	0.144	0.2
Fipronil (120068-37-3)	-	0.0180	0.144	0.4	Trifloxystrobin (141517-21-7)	-	0.0180	0.144	0.2
Fonicamid (158062-67-0)	-	0.0180	0.144	1					
Fludioxinil (131341-86-1)	-	0.0180	0.144	0.4					
Hexythiazox (78587-05-0)	-	0.0180	0.144	1					
Imazalil (35554-44-0)	-	0.0180	0.144	0.2					
Imidacloprid (138261-41-3)	-	0.0180	0.144	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	Systhane	Propiconazole	Tilt
DDVP	Dichlorvos	Naled	Dibrom	Propoxur	Baygon
Ethoprophos	Prophos	Phosmet	Imidan		

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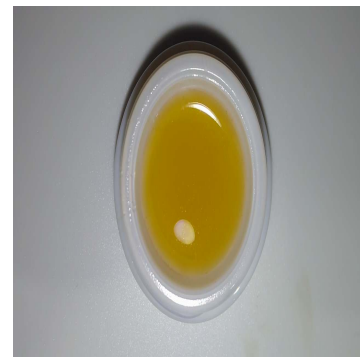
CERTIFICATE OF ANALYSIS (SAMPLE ID: SA32160)

Testing Location: Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADH 113	Customer ID: 2168 River Valley Relief MIPS 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 License: 00065C	Order ID: OR9998 Lot Number: M00065C13243075898 Production Run: E20220810RFC1	Sample Type: Primary Matrix: Concentrate Mass: 4g Date Collected: 08/31/2022 Date Received: 09/01/2022
Cultivar (Strain) or Sample Description: Race Fuel Hybrid Cured Resin .5g Cart			Date Completed: 09/06/2022

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

Analysis Date/Time: 09/02/2022 0701 (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)	-	55.1	87.2	200
Cadmium (Cd)	-	55.1	87.2	200
Lead (Pb)	-	55.1	87.2	500
Mercury (Hg)	-	55.1	87.2	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.

REPORT OF LABORATORY ANALYSIS

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 Felling Analytical Services and Technology (F.A.S.T.), LLC

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



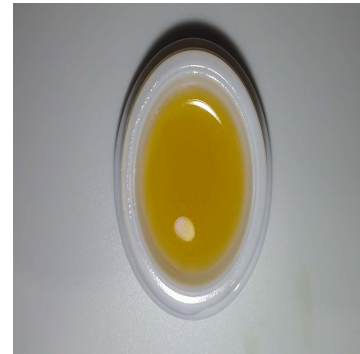
CERTIFICATE OF ANALYSIS (SAMPLE ID: SA32160)

Testing Location: Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADA 05_H273	Customer ID: 2168 River Valley Relief MIPS 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 License: 00065C	Sample ID: SA32160 Lot Number: M00065C13243075898 Production Run: E20220810RFC1	Sample Type: Primary Matrix: Concentrate Mass: 4g Date Collected: 08/31/2022 Date Received: 09/01/2022
Cultivar (Strain) or Sample Description: Race Fuel Hybrid Cured Resin .5g Cart			Date Completed: 09/06/2022

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 20220902 1327 **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	Absent	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

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

