

SUMMARY OF ANALYSIS (SAMPLE ID: SA35640)

Testing Location:	Customer ID: 2168	Order ID: OR10532	Sample Type: Primary
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13249528227	Mass: 4grams
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 07/17/2023
License: ADH 113	License: 00065C	E20230713ICCDC01	Date Received: 07/17/2023
Cultivar (Strain) or Sample Description: RNTZ OG Sauce Hybrid Distillate .5g Cart			Date Completed: 07/20/2023

*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.

Cannabinoids (Top 3)	(%)	mg/g
Δ9-THC	68.3	683
CBD	21.9	219
THCV	1.57	15.7
TOTAL CBD	21.9	219
TOTAL THC	68.9	689
TOTAL CANNABINOIDS	94.3	943

Terpenes (Top 5)	(%)	µg/g
d-Limonene	0.428	4280
β-Pinene	0.175	1750
α-Pinene	0.157	1570
Camphene	0.0698	698
β-Caryophyllene	0.0262	262
TOTAL TERPENES	0.855	8550

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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www.FASTLaboratories.com

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



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35640)

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

Analysis Date/Time: 07/18/2023 1905

Method: HPLC/DAD

Moisture Content (%): -

Analyst: PW

Instrument: Agilent 1100

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	0.412	4.12	0.0995	0.232	-	4.12	4.12
CBCA	ND	ND	0.309	0.721	-	-	-
CBD	21.9	219	0.702	1.64	-	219	219
CBDV	ND	ND	0.258	0.603	-	-	-
CBDVA	ND	ND	0.300	0.701	-	-	-
CBG	1.25	12.5	0.456	1.06	-	12.5	12.5
CBGA	ND	ND	0.646	0.762	-	-	-
CBL	ND	ND	0.526	1.23	-	-	-
CBN	0.274	2.74	0.242	0.565	-	2.74	2.74
CBNA	ND	ND	0.261	0.608	-	-	-
Δ9-THC	68.3	683	0.290	0.676	-	683	683
Δ8-THC	ND	ND	0.452	1.06	-	-	-
THCA	0.670	6.70	0.157	0.367	-	6.70	6.70
THCV	1.57	15.7	0.377	0.879	-	15.7	15.7
THCVA	ND	ND	0.120	0.280	-	-	-
TOTAL	94.3	943			-	943	943
TOTAL CBC	0.412	4.12			-	4.12	4.12
TOTAL CBD	21.9	219			-	219	219
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	1.25	12.5			-	12.5	12.5
TOTAL CBN	0.274	2.74			-	2.74	2.74
TOTAL THC	68.9	689			-	689	689
TOTAL THCV	1.57	15.7			-	15.7	15.7



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) + THCV

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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TERPENOID PROFILE

Analysis Date/Time: 07/19/2023 1617

Method: GC/MS

Deviations from SOP:

Analyst: KF

Instrument: Agilent 7890/5975

None

<u>Terpene</u>	<u>Result</u> <u>(µg/g)</u>	<u>Result</u> <u>(%)</u>	
α-Bisabolol	ND	-	
Camphene	698	0.0698	■
δ-3-Carene	ND	-	
β-Caryophyllene	262	0.0262	■
Caryophyllene oxide	ND	-	
p-Cymene	ND	-	
Eucalyptol	ND	-	
Geraniol	ND	-	
Guaiol	ND	-	
α-Humulene	<LOQ	-	
Isopulegol	ND	-	
d-Limonene	4280	0.428	■
Linalool	ND	-	
β-Myrcene	ND	-	
cis-Nerolidol	ND	-	
trans-Nerolidol	ND	-	
α-Ocimene	ND	-	
β-Ocimene	ND	-	
α-Pinene	1570	0.157	■
β-Pinene	1750	0.175	■
α-Terpinene	ND	-	
γ-Terpinene	ND	-	
Terpinolene	ND	-	
TOTAL	8550	0.855	



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): 218

"-" Not detected above LOD.

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

Analysis Date/Time: 07/19/2023 0220	Method: HS/GC/MS	Deviations from SOP:
Analyst: KF	Instrument: Agilent 7890/5975	None

<u>Solvent</u>	<u>Result</u> (µg/g)	<u>LOD</u> (µg/g)	<u>LOQ</u> (µg/g)	<u>Action Level</u> (µg/g)	<u>Solvent</u>	<u>Result</u> (µg/g)	<u>LOD</u> (µg/g)	<u>LOQ</u> (µg/g)	<u>Action Level</u> (µg/g)
Acetone (67-64-1)	-	142	283	5000	n-Heptane (142-82-5)	-	142	283	5000
Acetonitrile (75-5-8)	-	142	283	410	n-Hexane (110-54-3)	-	49.6	99.1	290
Benzene (71-43-2)	-	142	283	2	Isobutane (75-28-5)	-	142	283	5000
n-Butane (106-97-2)	-	142	283	5000	Isopropanol (67-63-0)	-	142	283	5000
1-Butanol (71-36-3)	-	142	283	5000	Isopropyl acetate (108-21-4)	-	142	283	5000
2-Butanol (78-92-2)	-	142	283	5000	Isopropyl benzene (98-82-8)	-	14.2	28.3	70
2-Butanone (78-93-3)	-	142	283	5000	Methanol (67-56-1)	-	142	283	3000
Cyclohexane (110-82-7)	-	142	283	3880	2-Methylbutane (78-78-4)	-	142	283	5000
1,2-Dimethoxyethane (110-71-4)	-	14.2	28.3	100	Methylene chloride (75-9-2)	-	142	283	600
N,N-Dimethylacetamide (127-19-5)	-	142	283	1090	2-Methylpentane (107-83-5)	-	49.6	99.1	290
2,2-Dimethylbutane (75-83-2)	-	49.6	99.1	290	3-Methylpentane (96-10-0)	-	49.6	99.1	290
2,3-Dimethylbutane (79-29-8)	-	49.6	99.1	290	n-Pentane (109-66-0)	-	142	283	5000
N,N-Dimethylformamide (68-12-2)	-	142	283	880	1-Pentanol (71-41-0)	-	142	283	5000
Dimethylsulfoxide (67-68-5)	-	142	283	5000	n-Propane (74-98-6)	-	142	283	5000
1,4-Dioxane (123-91-1)	-	142	283	380	1-Propanol (71-23-8)	-	142	283	5000
Ethanol (64-17-5)	-	142	283	5000	Pyridine (110-86-1)	-	49.6	99.1	200
2-Ethoxyethanol (110-80-5)	-	49.6	99.1	160	Tetrahydrofuran (109-99-9)	-	142	283	720
Ethyl ether (60-29-7)	-	142	283	5000	Tetramethylene sulfone (126-33-0)	-	49.6	99.1	160
Ethyl acetate (141-78-6)	-	142	283	5000	Toluene (108-88-3)	-	142	283	890
Ethyl benzene (100-41-4)	-	142	283	2170	o-Xylene (95-47-6)	-	142	283	2170
Ethylene glycol (107-21-1)	-	142	283	620	m,p-Xylene (108-38-3 or 106-42-3)	-	142	283	2170
Ethylene oxide (75-21-8)	-	14.2	28.3	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.

<u>Solvent</u>	<u>Synonym(s)</u>	<u>Solvent</u>	<u>Synonym(s)</u>
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: 07/18/2023 2053

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)	-	0.0435	0.348	0.5	Kresoxim-methyl (143390-89-0)	-	0.0435	0.348	0.4
Acephate (30560-19-1)	-	0.0435	0.348	0.4	Malathion (121-75-5)	-	0.0435	0.348	0.2
Acetaminophen (57960-19-7)	-	0.0435	0.348	2	Metalaxyl (57837-19-1)	-	0.0435	0.348	0.2
Acetamiprid (135410-20-7)	-	0.0435	0.348	0.2	Methiocarb (2032-65-7)	-	0.0435	0.348	0.2
Aldicarb (116-06-3)	-	0.0435	0.348	0.4	Methomyl (16752-77-5)	-	0.0435	0.348	0.4
Azoxystrobin (131860-33-8)	-	0.0435	0.348	0.2	Methyl parathion (298-0-0)	-	0.0435	0.348	0.2
Bifenazate (149877-41-8)	-	0.0435	0.348	0.2	MGK 264 (113-48-4)	-	0.0435	0.348	0.2
Bifenthrin (82657-04-3)	-	0.0435	0.348	0.2	Myclobutanil (88671-89-0)	-	0.0435	0.348	0.2
Boscalid (188425-85-6)	-	0.0435	0.348	0.4	Naled (300-76-5)	-	0.0435	0.348	0.5
Carbaryl (63-25-2)	-	0.0435	0.348	0.2	Oxamyl (23135-22-0)	-	0.0435	0.348	1
Carbofuran (1563-66-2)	-	0.0435	0.348	0.2	Paclobutrazol (76738-62-0)	-	0.0435	0.348	0.4
Chlorantraniliprole (800008-45-7)	-	0.0435	0.348	0.2	Permethrins (52645-53-1)	-	0.0435	0.348	0.2
Chlorfenapyr (122453-73-0)	-	0.0435	0.348	1	Phosmet (732-11-6)	-	0.0435	0.348	0.2
Chlorpyrifos (2921-88-2)	-	0.0435	0.348	0.2	Piperonyl butoxide (51-03-6)	-	0.0435	0.348	2
Clofentezine (74115-24-5)	-	0.0435	0.348	0.2	Prallethrin (2331-36-9)	-	0.0435	0.348	0.2
Cyfluthrin (68359-37-5)	-	0.0435	0.348	1	Propiconazole (60207-90-1))	-	0.0435	0.348	0.4
Cypermethrin (52315-07-8)	-	0.0435	0.348	1	Propoxur (114-26-1)	-	0.0435	0.348	0.2
Daminozide (1596-84-5)	-	0.0435	0.348	1	Pyrethrins (8003-34-7)	-	0.0435	0.348	1
DDVP (62-73-7)	-	0.0435	0.348	0.1	Pyridaben (96489-71-3)	-	0.0435	0.348	0.2
Diazinon (333-41-5)	-	0.0435	0.348	0.2	Spinosad (168316-95-8)	-	0.0435	0.348	0.2
Dimethoate (60-51-5)	-	0.0435	0.348	0.2	Spiromesifen (283594-90-1)	-	0.0435	0.348	0.2
Ethoprophos (13194-48-4)	-	0.0435	0.348	0.2	Spirotetramat (203313-25-1)	-	0.0435	0.348	0.2
Etofenprox (80844-07-1)	-	0.0435	0.348	0.4	Spiroxamine (118134-30-8)	-	0.0435	0.348	0.4
Etiozazole (153233-91-1)	-	0.0435	0.348	0.2	Tebuconazole (80443-41-0)	-	0.0435	0.348	0.4
Fenoxycarb (72490-01-8)	-	0.0435	0.348	0.2	Thiacloprid (111988-49-9)	-	0.0435	0.348	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0435	0.348	0.4	Thiamethoxam (153719-23-4)	-	0.0435	0.348	0.2
Fipronil (120068-37-3)	-	0.0435	0.348	0.4	Trifloxystrobin (141517-21-7)	-	0.0435	0.348	0.2
Flonicamid (158062-67-0)	-	0.0435	0.348	1					
Fludioxinil (131341-86-1)	-	0.0435	0.348	0.4					
Hexythiazox (78587-05-0)	-	0.0435	0.348	1					
Imazalil (35554-44-0)	-	0.0435	0.348	0.2					
Imidacloprid (138261-41-3)	-	0.0435	0.348	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
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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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HEAVY METAL PROFILE (SOP: SOP-ICP-200.6)

Analysis Date/Time: 07/19/2023 1617 (ICP/OES)	Method: ICP/MS	Deviations from SOP:
Analysis Date/Time: - (DMA)	Instrument: Agilent 7500ce	None
Analyst: KF		

Heavy Metal	Result (µg/kg)	LOD (µg/kg)	LOQ (µg/kg)	Action Level (µg/kg)
Arsenic (As)	-	57.1	90.3	200
Cadmium (Cd)	-	57.1	90.3	200
Lead (Pb)	-	57.1	90.3	500
Mercury (Hg)	-	57.1	90.3	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

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"-" 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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www.FASTLaboratories.com

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



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35640)

Testing Location:	Customer ID: 2168	Sample ID: SA35640	Sample Type: Primary
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13249528227	Mass: 4grams
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 07/17/2023
License: ADA 05_H273	License: 00065C	E20230713ICCDC01	Date Received: 07/17/2023
Cultivar (Strain) or Sample Description: RNTZ OG Sauce Hybrid Distillate .5g Cart			Date Completed: 07/20/2023

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 07/19/2023 1237	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	-



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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