Summary Certificate of Analysis

Batch: TS-00126
Date of Formulation: 2022-17-11
Date of Manufacture: 2022-18-11
Report Date: 2022-19-11
Product: 2 GRAM DISPOSABLE
Sku: THCX-DV-LR-TS-2-FZF

ISO 9001 2015 Cert No: C2021-04309
Strain: Terpee Slurpee
Device: SL-PP6815
Ingredients License Numbers:
AG-R1058843IHH (Delta 8),
AG-R1072031IHH (Live Resin)

Address of Manufacture: Abundant Labs, 289 Silkwood Dr, Canton, NC 28716

Instrumentation: HPLC (multiple) Instrument ID: HPLC Method: FF1011 (Frozen Fields Summary)

Analyte	LOD/LOQ (mg/g)	mg/g	% by weight
CBD	.0877	27.51	2.75
CBDA	.877	32.45	3.245
Total CBD*		**54.96**	**5.49**
Δ9 THC	.0877	LOQ	
THCA	.0877	21.00	0.21
Total THC*	**.0877**	**21.00**	**0.21**
CBG	.0877	LOQ	
CBGA	.0877	5.87	.58
Total CBG*	**.0877**	**5.87**	**.58**
THC-X IV	.877	139.2	13.92
THC-X A	.877	LOQ	
THC-X B	.877	45.25	4.525
Total THC-X*	**.877**	**184.45**	**30.80**
CBC	.877	5.84	.58
CBDV	.877	LOQ	
CBN	.877	31.03	3.10
Δ8 THC	.877	531.91	53.91
THCV	.877	LOQ	
HHC	.877	LOQ	
THCP	.877	8.6	.86
Total Tested Cannabinoids		**845.72**	**84.57**

Totals account for decarboxylation of the acid and equal XXX + (XXXA * 0.877)

For example:
Total THC = Δ9-THC + (THCA * 0.877)

Moisture content not included in Summary.

Results Summary:	**Pass**	**Fail**
Cannabinoid Compliance:	✓	
Pesticides:	✓	
Residual Solvents:	✓	
Heavy Metals:	✓	
Terpene Content:	9.2 **%**	

Notes: N/A

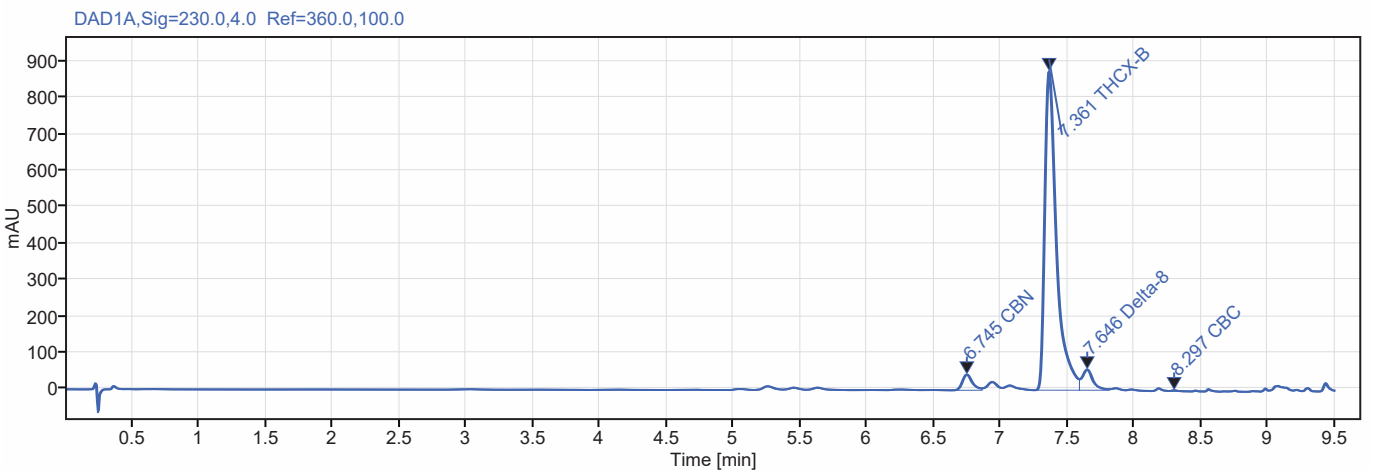
Signed By: *Aaron O'Connor*
Production Manager

ND = Not Detected NT = Not Tested LOQ = Below Limit of quantification LOD = Limit Of Detection

Single Injection Report

ABUNDANT LABS

Sample name:	Butyrate Ester		
Data file:	Buty Ester2022-11-07 14-57-28-08-00.dx	**Operator:**	Davis Collins
Instrument:	Agilent Infinity II HPLC	**Injection date:**	2022-11-07 14:58:11-08:00
Acq. method:	Cannabis bottom sense.amx	**Location:**	D1F-B3
Processing method:	*THCx %.pmx	**Type:**	Sample



Signal: DAD1A,Sig=230.0,4.0 Ref=360.0,100.0

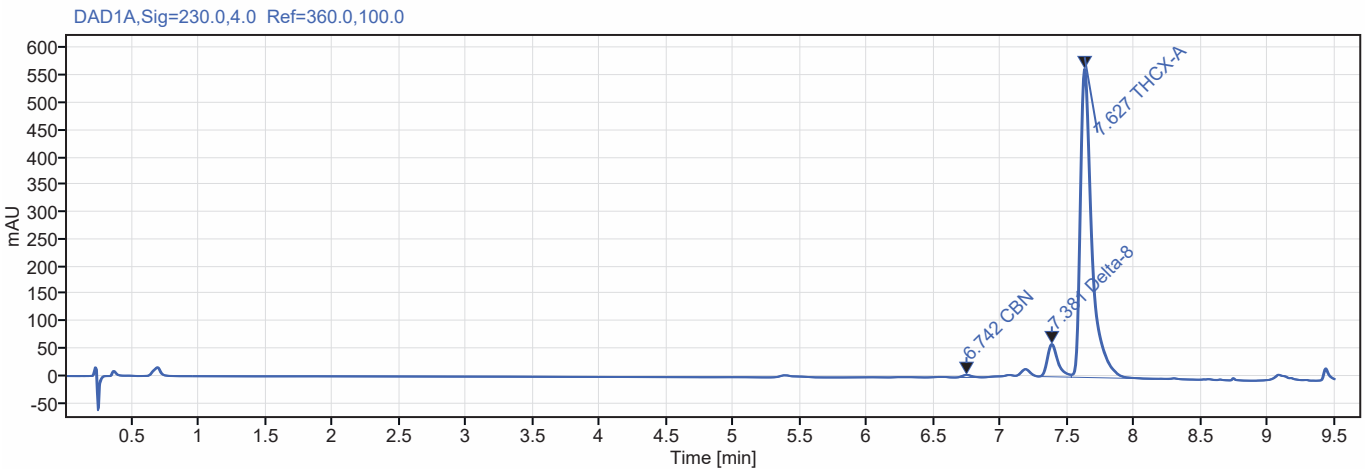
Name	RT [min]	Expected RT	Area	Wt. %
CBN	6.74	6.770	225.593	3.81
THCX-B	7.36	7.412	5362.327	90.55
Delta-8	7.65	7.674	326.254	5.51
CBC	8.30	8.195	7.581	0.13

Total THCX Potency
905.5 mg/ml
Total Δ8-THC Potency
51.5 mg/ml
Total CBD Potency
0 mg/ml

For informational purposes only.

Single Injection Report

Sample name:	Acetoacetate Ester		
Data file:	Ace Ester2022-11-07 14-45-42-08-00.dx	**Operator:**	Davis Collins
Instrument:	Agilent Infinity II HPLC	**Injection date:**	2022-11-07 14:46:27-08:00
Acq. method:	Cannabis bottom sense.amx	**Location:**	D1F-B2
Processing method:	*THCx %.pmx	**Type:**	Sample



Signal: DAD1A,Sig=230.0,4.0 Ref=360.0,100.0

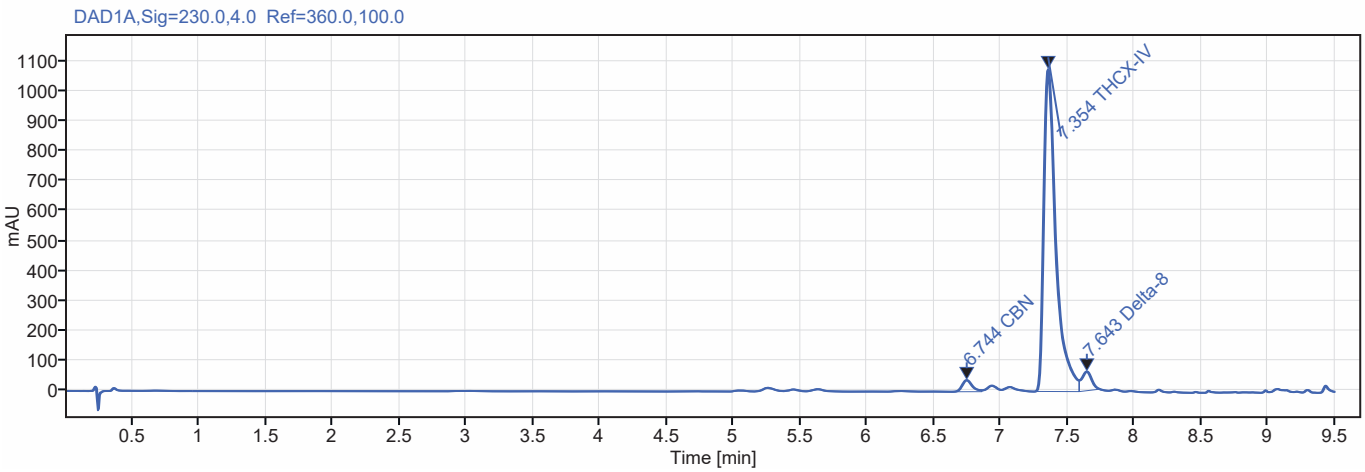
Name	RT [min]	Expected RT	Area	Wt. %
CBN	6.74	6.770	22.293	0.60
Delta-8	7.38	7.412	327.002	8.76
THCX-A	7.63	7.674	3382.642	90.64

Total THCX Potency
906.4 mg/ml
Total Δ8-THC Potency
87.6 mg/ml
Total CBD Potency
0 mg/ml

For informational purposes only.

Single Injection Report

Sample name:	Isovalerate Ester		
Data file:	Isov Ester2022-11-07 15-09-14-08-00.dx	**Operator:**	Davis Collins
Instrument:	Agilent Infinity II HPLC	**Injection date:**	2022-11-07 15:09:58-08:00
Acq. method:	Cannabis bottom sense.amx	**Location:**	D1F-B4
Processing method:	*THCx %.pmx	**Type:**	Sample



Signal: DAD1A,Sig=230.0,4.0 Ref=360.0,100.0

Name	RT [min]	Expected RT	Area	Wt. %
CBN	6.74	6.770	204.139	2.79
THCX-IV	7.35	7.412	6789.086	92.68
Delta-8	7.64	7.674	331.967	4.53

Total THCX Potency
926.8 mg/ml
Total Δ8-THC Potency
45.3 mg/ml
Total CBD Potency
0 mg/ml

For informational purposes only.

ACS LABORATORY | CANNABIS & HEMP BEYOND COMPLIANCE
721 Cortaro Dr.
Sun City Center, FL 33573
www.acslabcannabis.com

DEA No. RA0571996
FL License # CMTL-0003
CLIA No. 10D1094068

Delta 8 sample 3
Sample Matrix: CBD/HEMP Derivative Products (Inhalation - Heated)

Certificate of Analysis

R&D

ABUNDANT LABS
289 SILKWOOD DR
CANTON, NC 28716

Batch # N/A
Batch Date: 2022-10-19
Extracted From: hemp

Test Reg State: Florida

Order # ABU221020-010001
Order Date: 2022-10-20
Sample # AADP577

Sampling Date: 2022-10-24
Lab Batch Date: 2022-10-24
Completion Date: 2022-10-27

Initial Gross Weight: 14.316 g

Product Image

Potency
Tested

Delta 8/Delta 10 Potency 13 - (LCUV)

Tested
SOP13.052 (LCUV)

Specimen Weight: 54.050 mg

Analyte	LOD (%)	LOQ (%)	Result (mg/g)	(%)
Delta-8 THC	2.60E-5	0.0015	836.820	83.682
CBD	5.40E-5	0.0015	10.530	1.053
CBC	1.80E-5	0.0015		<LOQ
CBDA	1.00E-5	0.0015		<LOQ
CBDV	6.50E-5	0.0015		<LOQ
CBG	2.48E-4	0.0015		<LOQ
CBGA	8.00E-5	0.0015		<LOQ
CBN	1.40E-5	0.0015		<LOQ
Delta-10 THC	3.00E-6	0.0015		<LOQ
Delta-9 THC	1.30E-5	0.1		<LOQ
Delta6a10a-THC	8.47E-5	0.0015		<LOQ
THCA-A	3.20E-5	0.0015		<LOQ
THCV	7.00E-6	0.0015		<LOQ

Potency Summary

Total Delta 8 83.682%	Total Delta 10 - None Detected
Total Active THC - None Detected	Total Active CBD 1.053%
Total CBG - None Detected	Total CBN - None Detected
Other Cannabinoids - None Detected	Total Cannabinoids 84.735%

Xueli Gao, Ph.D., DABT — Lab Toxicologist

Aixia Sun, D.H.Sc., M.Sc., B.Sc., MT (AAB) — Lab Director/Principal Scientist

PJLA Testing Accreditation #101103

DEA REGISTERED LABORATORY #RA0571996

Definitions and Abbreviations used in this report: Total Active CBD = CBD + (CBD-A * 0.877), *Total CBDV = CBDV + (CBDVA * 0.87), Total Active THC = THCA-A * 0.877 + Delta 9 THC, Total THCV = THCV + (THCVA * 0.87) , CBG Total = (CBGA * 0.877) + CBG, CBN Total = (CBNA * 0.877) + CBN, Total CBC = CBC + (CBCA * 0.877), Total THC-O-Acetate = Delta 8 THC-O-Acetate + Delta 9 THC-O-Acetate, Other Cannabinoids Total = Total Cannabinoids - All the listed cannabinoids on the summary section, Total Detected Cannabinoids = Delta6a10a-THC + Delta8-THC + Total CBN + CBT + Delta8-THCV + Total CBG + Total CBD + Total THCV + CBL + Total THC + Total CBC + Total CBDV + Delta10-THC + Total THC-O-Acetate, Analyte Details above show the Dry Weight Concentrations unless specified as 12% moisture concentration. (mg/ml) = Milligrams per Milliliter, LOQ = Limit of Quantitation, LOD = Limit of Detection, Dilution = Dilution Factor (ppb) = Parts per Billion, (%) = Percent, (cfu/g) = Colony Forming Unit per Gram (cfu/g) = Colony Forming Unit per Gram, , LOD = Limit of Detection, (µg/g) = Microgram per Gram (ppm) = Parts per Million, (ppm) = (µg/g), (aw) = aw (area ratio) = Area Ratio, (mg/Kg) = Milligram per Kilogram , *Measurement of Uncertainty = +/- 10%

Columbia LABORATORIES
A Tentamus Company

12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

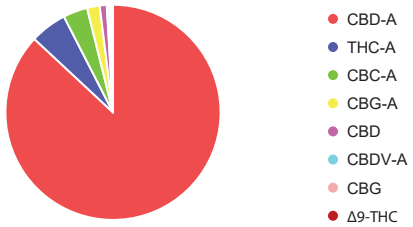
Report Number: 21-012071/D004.R000
Report Date: 10/19/2021
ORELAP#: OR100028
Purchase Order:
Received: 10/12/21 14:15

Customer: Hempsi
Product identity: Sour RNA Live Oil #10072100
Client/Metrc ID: .
Laboratory ID: 21-012071-0001

Summary

Potency:

Analyte	Result (%)
CBD-A	64.9
THC-A	4.12
CBC-A†	2.73
CBG-A†	1.41
CBD	0.795
CBDV-A†	0.273
CBG†	0.215
Δ9-THC	0.198



CBD-Total 57.7%

THC-Total 3.81%

(Reported in percent of total sample)

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

All analytes passing and less than LOQ.

Terpenes:

Analyte	Percent by weight	Percent of Total	Analyte	Percent by weight	Percent of Total
ß-Myrcene†	4.30	36.44%	Terpinolene†	2.24	18.98%
(R)-(+)-Limonene†	1.01	8.56%	ß-Caryophyllene†	0.739	6.26%
farnesene†	0.659	5.58%	trans-ß-Ocimene†	0.570	4.83%
(-)-Guaiol†	0.501	4.25%	Humulene†	0.308	2.61%
(-)-ß-Pinene†	0.236	2.00%	a-pinene†	0.179	1.52%
Linalool†	0.120	1.02%	a-Bisabolol†	0.107	0.91%
(+)-fenchol†	0.103	0.87%	a-Terpinene†	0.103	0.87%
a-phellandrene†	0.0969	0.82%	(-)-a-Terpineol†	0.0898	0.76%
d-3-Carene†	0.0728	0.62%	gamma-Terpinene†	0.0699	0.59%
valencene†	0.0572	0.48%	(±)-trans-Nerolidol†	0.0501	0.42%
(-)-caryophyllene oxide†	0.0414	0.35%	Camphene†	0.0292	0.25%
cis-ß-Ocimene†	0.0248	0.21%	p-Cymene†	0.0247	0.21%
(+)-Borneol†	0.0240	0.20%	**Total Terpenes†**	**11.8**	**100.00%**

Metals:

Less than LOQ for all analytes.

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A Tentamus Company

12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

Report Number: 21-012071/D004.R000
Report Date: 10/19/2021
ORELAP#: OR100028
Purchase Order:
Received: 10/12/21 14:15

Customer: Hempsi
3913 NE Hancock St Unit 500
Portland Oregon 97212
United States of America (USA)

Product identity: Sour RNA Live Oil #10072100
Client/Metrc ID: .
Sample Date:
Laboratory ID: 21-012071-0001
Evidence of Cooling: No
Temp: 19 °C
Relinquished by: USPS

Sample Results

Potency **Method** J AOAC 2015 V98-6 (mod) **Units** % **Batch:** 2109283 **Analyze:** 10/13/21 7:46:00 PM

Analyte	As Received	Dry weight	LOQ	Notes
CBC	< LOQ		0.0877	
CBC-A†	2.73		0.0877	
CBC-Total†	2.39		0.165	
CBD	0.795		0.0877	
CBD-A	64.9		0.877	
CBD-Total	57.7		0.857	
CBDV†	< LOQ		0.0877	
CBDV-A†	0.273		0.0877	
CBDV-Total†	0.237		0.164	
CBE†	< LOQ		0.0877	
CBG†	0.215		0.0877	
CBG-A†	1.41		0.0877	
CBG-Total	1.45		0.164	
CBL†	< LOQ		0.0877	
CBL-A†	< LOQ		0.0877	
CBL-Total†	< LOQ		0.165	
CBN	< LOQ		0.0877	
CBT†	< LOQ		0.0877	
Δ8-THC†	< LOQ		0.0877	
Δ8-THCV	< LOQ		0.0877	
Δ9-THC	0.198		0.0877	
THC-A	4.12		0.0877	
THC-Total	3.81		0.165	
THCV†	< LOQ		0.0877	
THCV-A†	< LOQ		0.0877	
THCV-Total†	< LOQ		0.164	
Total Cannabinoids†	74.6			

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12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

Report Number: 21-012071/D004.R000
Report Date: 10/19/2021
ORELAP#: OR100028
Purchase Order:
Received: 10/12/21 14:15

Solvents **Method** Residual Solvents by GC/MS **Units** µg/g **Batch** 2109400 **Analyze** 10/19/21 12:27 PM

Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
1,4-Dioxane	< LOQ	380	100	pass		2-Butanol	< LOQ	5000	200	pass	
2-Ethoxyethanol	< LOQ	160	30.0	pass		2-Methylbutane	< LOQ		200		
2-Methylpentane	< LOQ		30.0			2-Propanol (IPA)	< LOQ	5000	200	pass	
2,2-Dimethylbutane	< LOQ		30.0			2,2-Dimethylpropane	< LOQ		200		
2,3-Dimethylbutane	< LOQ		30.0			3-Methylpentane	< LOQ		30.0		
Acetone	< LOQ	5000	200	pass		Acetonitrile	< LOQ	410	100	pass	
Benzene	< LOQ	2.00	1.00	pass		Butanes (sum)	< LOQ	5000	400	pass	
Cyclohexane	< LOQ	3880	200	pass		Ethyl acetate	< LOQ	5000	200	pass	
Ethyl benzene	< LOQ		200			Ethyl ether	< LOQ	5000	200	pass	
Ethylene glycol	< LOQ	620	200	pass		Ethylene oxide	< LOQ	50.0	20.0	pass	
Hexanes (sum)	< LOQ	290	150	pass		Isopropyl acetate	< LOQ	5000	200	pass	
Isopropylbenzene	< LOQ	70.0	30.0	pass		m,p-Xylene	< LOQ		200		
Methanol	< LOQ	3000	200	pass		Methylene chloride	< LOQ	600	60.0	pass	
Methylpropane	< LOQ		200			n-Butane	< LOQ		200		
n-Heptane	< LOQ	5000	200	pass		n-Hexane	< LOQ		30.0		
n-Pentane	< LOQ		200			o-Xylene	< LOQ		200		
Pentanes (sum)	< LOQ	5000	600	pass		Propane	< LOQ	5000	200	pass	
Tetrahydrofuran	< LOQ	720	100	pass		Toluene	< LOQ	890	100	pass	
Total Xylenes	< LOQ		400			Total Xylenes and Ethyl	< LOQ	2170	600	pass	

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Report Number: 21-012071/D004.R000
Report Date: 10/19/2021
ORELAP#: OR100028
Purchase Order:
Received: 10/12/21 14:15

Pesticides **Method** AOAC 2007.01 & EN 15662 (mod) **Units** mg/kg **Batch** 2109234 **Analyze** 10/13/21 12:13 PM

Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin	< LOQ	0.50	0.250	pass		Acephate	< LOQ	0.40	0.250	pass	
Acequinocyl	< LOQ	2.0	1.00	pass		Acetamiprid	< LOQ	0.20	0.100	pass	
Aldicarb	< LOQ	0.40	0.200	pass		Azoxystrobin	< LOQ	0.20	0.100	pass	
Bifenazate	< LOQ	0.20	0.100	pass		Bifenthrin	< LOQ	0.20	0.100	pass	
Boscalid	< LOQ	0.40	0.200	pass		Carbaryl	< LOQ	0.20	0.100	pass	
Carbofuran	< LOQ	0.20	0.100	pass		Chlorantraniliprole	< LOQ	0.20	0.100	pass	
Chlorfenapyr	< LOQ	1.0	0.500	pass		Chlorpyrifos	< LOQ	0.20	0.100	pass	
Clofentezine	< LOQ	0.20	0.100	pass		Cyfluthrin	< LOQ	1.0	0.500	pass	
Cypermethrin	< LOQ	1.0	0.500	pass		Daminozide	< LOQ	1.0	0.500	pass	
Diazinon	< LOQ	0.20	0.100	pass		Dichlorvos	< LOQ	1.0	0.500	pass	
Dimethoate	< LOQ	0.20	0.100	pass		Ethoprophos	< LOQ	0.20	0.100	pass	
Etofenprox	< LOQ	0.40	0.200	pass		Etoxazole	< LOQ	0.20	0.100	pass	
Fenoxycarb	< LOQ	0.20	0.100	pass		Fenpyroximate	< LOQ	0.40	0.200	pass	
Fipronil	< LOQ	0.40	0.200	pass		Flonicamid	< LOQ	1.0	0.400	pass	
Fludioxonil	< LOQ	0.40	0.200	pass		Hexythiazox	< LOQ	1.0	0.400	pass	
Imazalil	< LOQ	0.20	0.100	pass		Imidacloprid	< LOQ	0.40	0.200	pass	
Kresoxim-methyl	< LOQ	0.40	0.200	pass		Malathion	< LOQ	0.20	0.100	pass	
Metalaxyl	< LOQ	0.20	0.100	pass		Methiocarb	< LOQ	0.20	0.100	pass	
Methomyl	< LOQ	0.40	0.200	pass		MGK-264	< LOQ	0.20	0.100	pass	
Myclobutanil	< LOQ	0.20	0.100	pass		Naled	< LOQ	0.50	0.250	pass	
Oxamyl	< LOQ	1.0	0.500	pass		Paclobutrazole	< LOQ	0.40	0.200	pass	
Parathion-Methyl	< LOQ	0.20	0.200	pass		Permethrin	< LOQ	0.20	0.100	pass	
Phosmet	< LOQ	0.20	0.100	pass		Piperonyl butoxide	< LOQ	2.0	1.00	pass	
Prallethrin	< LOQ	0.20	0.200	pass		Propiconazole	< LOQ	0.40	0.200	pass	
Propoxur	< LOQ	0.20	0.100	pass		Pyrethrin I (total)	< LOQ	1.0	0.500	pass	
Pyridaben	< LOQ	0.20	0.100	pass		Spinosad	< LOQ	0.20	0.100	pass	
Spiromesifen	< LOQ	0.20	0.100	pass		Spirotetramat	< LOQ	0.20	0.100	pass	
Spiroxamine	< LOQ	0.40	0.200	pass		Tebuconazole	< LOQ	0.40	0.200	pass	
Thiacloprid	< LOQ	0.20	0.100	pass		Thiamethoxam	< LOQ	0.20	0.100	pass	
Trifloxystrobin	< LOQ	0.20	0.100	pass							

Columbia LABORATORIES
A Tentamus Company

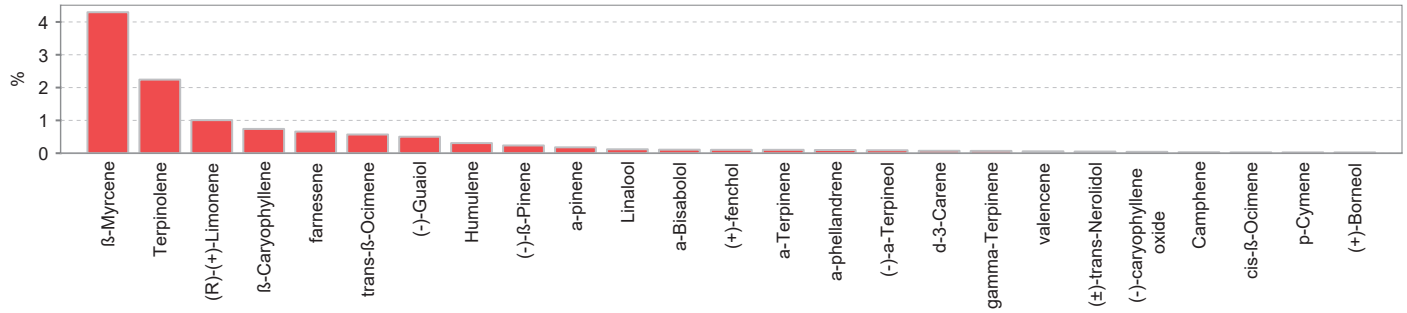
12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

Report Number: 21-012071/D004.R000
Report Date: 10/19/2021
ORELAP#: OR100028
Purchase Order:
Received: 10/12/21 14:15

Terpenes

Method J AOAC 2015 V98-6 **Units** % **Batch** 2109407 **Analyze** 10/19/21 12:00 AM

Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
ß-Myrcene†	4.30	0.018	36.44%		Terpinolene†	2.24	0.018	18.98%	
(R)-(+)-Limonene†	1.01	0.018	8.56%		ß-Caryophyllene†	0.739	0.018	6.263%	
farnesene†	0.659	0.018	5.585%		trans-ß-Ocimene†	0.570	0.012	4.831%	
(-)-Guaiol†	0.501	0.018	4.246%		Humulene†	0.308	0.018	2.610%	
(-)-ß-Pinene†	0.236	0.018	2.000%		a-pinene†	0.179	0.018	1.517%	
Linalool†	0.120	0.018	1.017%		a-Bisabolol†	0.107	0.018	0.907%	
(+)-fenchol†	0.103	0.018	0.873%		a-Terpinene†	0.103	0.018	0.873%	
a-phellandrene†	0.0969	0.018	0.8212%		(-)-a-Terpineol†	0.0898	0.018	0.7610%	
d-3-Carene†	0.0728	0.018	0.6169%		gamma-Terpinene†	0.0699	0.018	0.5924%	
valencene†	0.0572	0.018	0.4847%		(±)-trans-Nerolidol†	0.0501	0.018	0.4246%	
(-)-caryophyllene oxide†	0.0414	0.018	0.3508%		Camphene†	0.0292	0.018	0.2475%	
cis-ß-Ocimene†	0.0248	0.006	0.2102%		p-Cymene†	0.0247	0.018	0.2093%	
(+)-Borneol†	0.0240	0.018	0.2034%		Sabinene†	< LOQ	0.018	0.00%	
Geraniol†	< LOQ	0.018	0.00%		nerol†	< LOQ	0.018	0.00%	
Sabinene hydrate†	< LOQ	0.018	0.00%		Geranyl acetate†	< LOQ	0.018	0.00%	
(±)-Camphor†	< LOQ	0.018	0.00%		(+)-Pulegone†	< LOQ	0.018	0.00%	
(-)-Isopulegol†	< LOQ	0.018	0.00%		(+)-Cedrol†	< LOQ	0.018	0.00%	
(±)-cis-Nerolidol†	< LOQ	0.018	0.00%		(±)-fenchone†	< LOQ	0.018	0.00%	
a-cedrene†	< LOQ	0.018	0.00%		Eucalyptol†	< LOQ	0.018	0.00%	
Isoborneol†	< LOQ	0.018	0.00%		Menthol†	< LOQ	0.018	0.00%	
Total Terpenes	**11.8**								



Metals

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
Arsenic	< LOQ		mg/kg	0.0451	2109343	10/15/21	AOAC 2013.06 (mod.)		X
Cadmium	< LOQ		mg/kg	0.0451	2109343	10/15/21	AOAC 2013.06 (mod.)		X
Lead	< LOQ		mg/kg	0.0451	2109343	10/15/21	AOAC 2013.06 (mod.)		X
Mercury	< LOQ		mg/kg	0.0225	2109343	10/15/21	AOAC 2013.06 (mod.)		X

Columbia LABORATORIES
A Tentamus Company

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Mycotoxins

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
Aflatoxin B2†	< LOQ		µg/kg	5.00	2109363	10/18/21	AOAC 2007.01 & EN 15		
Aflatoxin B1†	< LOQ		µg/kg	5.00	2109363	10/18/21	AOAC 2007.01 & EN 15		
Aflatoxin G1†	< LOQ		µg/kg	5.00	2109363	10/18/21	AOAC 2007.01 & EN 15		
Aflatoxin G2†	< LOQ		µg/kg	5.00	2109363	10/18/21	AOAC 2007.01 & EN 15		
Deoxynivalenol†	< LOQ		µg/kg	200	2109363	10/18/21	AOAC 2007.01 & EN 15		
Fumonisin B1†	< LOQ		µg/kg	200	2109363	10/18/21	AOAC 2007.01 & EN 15		
Fumonisin B2†	< LOQ		µg/kg	200	2109363	10/18/21	AOAC 2007.01 & EN 15		
HT2-Toxin†	< LOQ		µg/kg	40.0	2109363	10/18/21	AOAC 2007.01 & EN 15		
Nivalenol†	< LOQ		µg/kg	400	2109363	10/18/21	AOAC 2007.01 & EN 15		
Ochratoxin A†	< LOQ		µg/kg	5.00	2109363	10/18/21	AOAC 2007.01 & EN 15		
Ochratoxin B†	< LOQ		µg/kg	2.00	2109363	10/18/21	AOAC 2007.01 & EN 15		
T2-Toxin†	< LOQ		µg/kg	20.0	2109363	10/18/21	AOAC 2007.01 & EN 15		
Zearalenone†	< LOQ		µg/kg	200	2109363	10/18/21	AOAC 2007.01 & EN 15		

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These test results are representative of the individual sample selected and submitted by the client.

Abbreviations

Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

† = Analyte not NELAP accredited.

Units of Measure

µg/g = Microgram per gram

µg/kg = Micrograms per kilogram = parts per billion (ppb)

mg/kg = Milligram per kilogram = parts per million (ppm)

% = Percentage of sample

% wt = µg/g divided by 10,000

Glossary of Qualifiers

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner
General Manager

Columbia LABORATORIES
A Tentamus Company

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Columbia LABORATORIES
A Tentamus Company

Hemp / Cannabis Usable / Extract / Finished Products
Chain of Custody Record

Document Control ID: 2732 Revision: 1
Effective: 05/04/2021
ORELAP ID: **OR100028**

Company: Hempsi
Contact: Reid Stewart
Street: 815 Grand Blvd
City: Vancouver State: WA Zip: 98661
☑ Email Results: r.stewart@hempsi.com
Ph: (___)_____ ☐ Fx Results: (___)_____
Billing (if different):_____

PO Number: _____
Project Number: _____
Project Name: _____
Custom Reporting: _____
Report to State - ☐ METRC or ☐ Other: _____
Turnaround time: ☐ 5 Business Day Standard Turnaround
☐ 3 Business Day Rush Turnaround*
☐ 2 Business Day Rush Turnaround*
Check for availability
Sampled by: _____

Lab ID	Client Sample Identification	Date	Time	Pesticides – OR 59 compounds	Pesticide Multi-Residue – 379 compounds	Potency	Residual Solvents	Moisture & Water Activity	Terpenes	Micro: Yeast and Mold	Micro: *E.Coli* and Total Coliform	Heavy Metals	Mycotoxins	Other:	Sample Type †	Weight (Units)	Comments/Metrc ID
			10/8														
	Sour RNA Live Oil #10072100	10/8/21	10/8	X		X	X		X			X	X			~ 10g	
			10/8														
			10/8														
			10/8														
			10/8														
			10/8														
			10/8														
			10/8														

Relinquished By:	Date	Time	Received By:	Date	Time
Andrew Burton	10/9/21	9:00 am	TDS	10/12/21	14:15

Lab Use Only:
☑ Shipped Via: USPS or ☐ Client drop
Evidence of cooling: ☐ Yes | ☑ No - Temp (°C): 19.0°C
Sample in good condition: ☑ Yes | ☐ No
☐ Cash | ☐ Check | ☐ CC | ☐ Net: _____
Prelog storage: _____

† - Sample Type Codes: Vegetation (V) ; Isolates (S) ; Extract/Concentrate (C) ; Tincture/Topical (T) ; Edible (E) ; Beverage (B)

Samples submitted to Columbia Laboratories with testing requirements constitute an agreement for services in accordance with the current terms of service associated with this COC. By signing "Relinquished by" you are agreeing to these terms

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Purchase Order:
Received: 10/12/21 14:15

Columbia LABORATORIES
A Tentamus Company

Job Number: _____ Search Name: _____

Package/Cooler opened on (if different than received date/time) Date: 10/12/21 Time: 14:15

Received By (Initials): DS Logged in by (Initials):_____ Date: _____ Time:_____

1) Were custody seals on outside of the package/cooler? YES NO (NA)
If YES, how many and where?_____

Does date match collection date on COC? ---------- YES NO (NA)

2) Was Chain of Custody (COC) included in the package/cooler? (YES) NO NA

3) Was COC signed when relinquished and received? (time, date)? (YES) NO NA

4) How was the package/cooler delivered?

UPS FEDEX (USPS) CLIENT COURIER OTHER: _____

Tracking Number (written in or copy of shipping label): 9405 5111 0843 5375 8903 32

5) Was packing material used? (YES) NO NA

Peanuts (Bubble Wrap) Foam Paper Other:

6) Was temperature upon receipt 4°C+- 2°C (if appropriate)? YES NO (NA)
If not, client contacted: _____
Proceed? YES NO

7) Was there evidence of cooling? YES (NO) NA

What kind? Blue Ice Ice Cooler Packs Dry Ice

8) Were all sample containers sealed in separate plastic bags? (YES) NO NA

9) Did all sample containers arrive in good condition? (YES) NO NA

10) Were all sample container labels complete? (YES) NO NA

11) Did all sample container labels and tags agree with the COC? (YES) NO NA

12) Were correct sample containers used for the tests indicated? (YES) NO NA

13) Were VOA vials checked for absence of air bubbles (note if found)? YES NO (NA)

14) Was a sufficient amount of sample sent in each sample container? (YES) NO NA

16) Sample location prior to login: R99 R39 R44 F44 (Ambient Shelf) Cannabis Table Other: _____

Explain any discrepancies: 19.0°C

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Revision: Document ID:
Legacy ID: Effective:

Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662 | **Units:** mg/Kg | **Batch ID:** 2109234

Method Blank				Laboratory Control Sample				
Analyte	**Blank Result**	**Blank Limits**	**Notes**	**LCS Result**	**LCS Spike**	**LCS % Rec**	**Limits**	**Notes**
Acephate	0.015	< 0.250		0.910	1.000	91.0	69.9 - 130	
Acequinocyl	0.000	< 1.000		3.706	4.000	92.7	71.1 - 132	
Acetamiprid	0.000	< 0.100		0.369	0.400	92.1	70.5 - 131	
Aldicarb	0.000	< 0.200		0.741	0.800	92.6	73.3 - 136	
Abamectin	0.000	< 0.250		0.944	1.000	94.4	71.8 - 133	
Azoxystrobin	0.000	< 0.100		0.344	0.400	86.1	69.9 - 130	
Bifenazate	0.000	< 0.100		0.415	0.400	103.8	74.3 - 138	
Bifenthrin	0.000	< 0.100		0.375	0.400	93.8	69.7 - 129	
Boscalid	0.000	< 0.200		0.707	0.800	88.4	70.3 - 131	
Carbaryl	0.002	< 0.100		0.373	0.400	93.3	70.1 - 130	
Carbofuran	0.000	< 0.100		0.369	0.400	92.3	71.9 - 133	
Chlorantraniliprol	0.000	< 0.100		0.361	0.400	90.3	69.0 - 128	
Chlorfenapyr	0.000	< 0.500		1.884	2.000	94.2	71.1 - 132	
Chlorpyrifos	0.000	< 0.100		0.362	0.400	90.4	68.3 - 127	
Clofentezine	0.000	< 0.100		0.364	0.400	91.1	69.6 - 129	
Cyfluthrin	0.000	< 0.500		1.892	2.000	94.6	71.9 - 134	
Cypermethrin	0.000	< 0.500		1.846	2.000	92.3	71.1 - 132	
Daminozide	0.088	< 0.500		1.769	2.000	88.5	71.8 - 133	
Diazinon	0.000	< 0.100		0.422	0.400	105.6	70.0 - 130	
Dichlorvos	0.000	< 0.500		1.790	2.000	89.5	68.4 - 127	
Dimethoat	0.000	< 0.100		0.362	0.400	90.5	70.5 - 131	
Ethoprophos	0.000	< 0.100		0.360	0.400	90.0	69.3 - 129	
Etofenprox	0.000	< 0.200		0.733	0.800	91.6	71.9 - 134	
Etoxazol	0.000	< 0.100		0.360	0.400	90.0	70.5 - 131	
Fenoxycarb	0.000	< 0.100		0.364	0.400	91.1	69.9 - 130	
Fenpyroximat	0.000	< 0.200		0.738	0.800	92.3	70.6 - 131	
Fipronil	0.000	< 0.200		0.779	0.800	97.4	71.9 - 134	
Flonicamid	0.000	< 0.250		0.890	1.000	89.0	70.4 - 131	
Fludioxonil	0.000	< 0.200		0.738	0.800	92.2	73.6 - 137	
Hexythiazox	0.000	< 0.250		0.925	1.000	92.5	68.9 - 128	
Imazalil	0.000	< 0.100		0.368	0.400	92.0	72.2 - 134	
Imidacloprid	0.000	< 0.200		0.727	0.800	90.8	69.7 - 130	
Kresoxim-Methyl	0.000	< 0.200		0.724	0.800	90.5	70.2 - 130	
Malathion	0.000	< 0.100		0.364	0.400	91.1	69.4 - 129	
Metalaxyl	0.000	< 0.100		0.364	0.400	91.1	70.5 - 131	
Methiocarb	0.004	< 0.100		0.363	0.400	90.8	70.1 - 130	
Methomyl	0.000	< 0.200		0.703	0.800	87.8	69.7 - 129	
MGK 264	0.000	< 0.100		0.361	0.400	90.2	69.7 - 129	
Myclobutanil	0.000	< 0.100		0.361	0.400	90.3	70.1 - 130	
Naled	0.000	< 0.250		0.903	1.000	90.3	72.2 - 134	
Oxamyl	0.000	< 0.500		1.783	2.000	89.2	70.7 - 131	
Paclobutrazol	0.000	< 0.200		0.731	0.800	91.3	70.5 - 131	
Parathion Methyl	0.000	< 0.200		0.758	0.800	94.8	72.1 - 134	
Permethrin	0.000	< 0.100		0.379	0.400	94.8	70.2 - 130	
Phosmet	0.000	< 0.100		0.361	0.400	90.2	69.8 - 130	
Piperonyl butoxide	0.000	< 0.500		1.869	2.000	93.4	72.6 - 135	
Prallethrin	0.000	< 0.100		0.373	0.400	93.4	70.7 - 131	
Propiconazole	0.000	< 0.200		0.737	0.800	92.2	70.2 - 130	
Propoxur	0.005	< 0.100		0.363	0.400	90.7	69.7 - 129	
Pyrethrins	0.000	< 0.100		0.380	0.413	92.0	69.0 - 128	
Pyridaben	0.000	< 0.100		0.368	0.400	92.0	69.7 - 129	
Spinosad	0.000	< 0.100		0.382	0.388	98.4	72.4 - 135	
Spiromesifen	0.000	< 0.100		0.369	0.400	92.2	71.3 - 132	
Spirotetramat	0.000	< 0.100		0.369	0.400	92.3	70.4 - 131	
Spiroxamine	0.000	< 0.200		0.709	0.800	88.6	68.5 - 127	
Tebuconazol	0.000	< 0.200		0.753	0.800	94.2	69.9 - 130	
Thiacloprid	0.000	< 0.100		0.364	0.400	91.0	69.6 - 129	
Thiamethoxam	0.000	< 0.100		0.378	0.400	94.5	69.7 - 129	
Trifloxystrobin	0.000	< 0.100		0.359	0.400	89.7	70.4 - 131	

Columbia LABORATORIES
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ORELAP#: OR100028
Purchase Order:
Received: 10/12/21 14:15

Revision: Document ID:
Legacy ID: Effective:

Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662 | **Units:** mg/Kg | **Batch ID:** 2109234

Matrix Spike/Matrix Spike Duplicate Recoveries | **Sample ID: 21-011896-0001**

Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Acephate	0.000	0.787	0.795	1.000	0.9%	< 30	78.7%	79.5%	50 - 150	
Acequinocyl	0.000	1.889	1.969	4.000	4.1%	< 30	47.2%	49.2%	50 - 150	Q
Acetamiprid	0.000	0.349	0.351	0.400	0.5%	< 30	87.2%	87.6%	50 - 150	
Aldicarb	0.000	0.708	0.709	0.800	0.1%	< 30	88.6%	88.6%	50 - 150	
Abamectin	0.000	0.732	0.742	1.000	1.3%	< 30	73.2%	74.2%	50 - 150	
Azoxystrobin	0.000	0.325	0.330	0.400	1.7%	< 30	81.1%	82.6%	50 - 150	
Bifenazate	0.000	0.426	0.416	0.400	2.3%	< 30	106.5%	104.1%	50 - 150	
Bifenthrin	0.000	0.228	0.225	0.400	1.5%	< 30	57.0%	56.1%	50 - 150	
Boscalid	0.000	0.666	0.759	0.800	13.2%	< 30	83.2%	94.9%	50 - 150	
Carbaryl	0.000	0.320	0.320	0.400	0.1%	< 30	80.0%	80.1%	50 - 150	
Carbofuran	0.000	0.318	0.317	0.400	0.3%	< 30	79.6%	79.3%	50 - 150	
Chlorantraniliprol	0.000	0.371	0.399	0.400	7.2%	< 30	92.8%	99.8%	50 - 150	
Chlorfenapyr	0.000	1.112	1.280	2.000	14.1%	< 30	55.6%	64.0%	50 - 150	
Chlorpyrifos	0.000	0.373	0.386	0.400	3.6%	< 30	93.1%	96.5%	50 - 150	
Clofentezine	0.000	0.284	0.278	0.400	2.4%	< 30	71.1%	69.4%	50 - 150	
Cyfluthrin	0.000	1.048	1.105	2.000	5.3%	< 30	52.4%	55.2%	30 - 150	
Cypermethrin	0.000	1.048	1.033	2.000	1.4%	< 30	52.4%	51.6%	50 - 150	
Daminozide	0.084	1.611	1.526	2.000	5.7%	< 30	76.3%	72.1%	30 - 150	
Diazinon	0.000	0.396	0.400	0.400	1.1%	< 30	99.0%	100.0%	50 - 150	
Dichlorvos	0.000	1.491	1.480	2.000	0.8%	< 30	74.6%	74.0%	50 - 150	
Dimethoat	0.000	0.337	0.336	0.400	0.1%	< 30	84.2%	84.1%	50 - 150	
Ethoprophos	0.008	0.342	0.347	0.400	1.5%	< 30	83.5%	84.8%	50 - 150	
Etofenprox	0.000	0.478	0.474	0.800	0.9%	< 30	59.7%	59.2%	50 - 150	
Etoxazol	0.000	0.313	0.307	0.400	2.1%	< 30	78.3%	76.7%	50 - 150	
Fenoxycarb	0.000	0.337	0.336	0.400	0.5%	< 30	84.3%	83.9%	50 - 150	
Fenpyroximat	0.000	0.538	0.527	0.800	2.0%	< 30	67.3%	65.9%	50 - 150	
Fipronil	0.000	0.533	0.524	0.800	1.8%	< 30	66.7%	65.5%	50 - 150	
Flonicamid	0.000	0.755	0.737	1.000	2.4%	< 30	75.5%	73.7%	50 - 150	
Fludioxonil	0.000	0.863	0.857	0.800	0.7%	< 30	107.9%	107.2%	50 - 150	
Hexythiazox	0.000	0.633	0.612	1.000	3.3%	< 30	63.3%	61.2%	50 - 150	
Imazalil	0.000	0.351	0.336	0.400	4.4%	< 30	87.7%	84.0%	50 - 150	
Imidacloprid	0.000	0.943	0.924	0.800	2.1%	< 30	117.9%	115.5%	50 - 150	
Kresoxim-Methyl	0.000	0.635	0.636	0.800	0.2%	< 30	79.3%	79.4%	50 - 150	
Malathion	0.000	0.345	0.341	0.400	1.0%	< 30	86.2%	85.3%	50 - 150	
Metalaxyl	0.108	0.359	0.361	0.400	0.6%	< 30	62.8%	63.2%	50 - 150	
Methiocarb	0.003	0.349	0.353	0.400	1.0%	< 30	86.7%	87.5%	50 - 150	
Methomyl	0.000	0.803	0.726	0.800	10.0%	< 30	100.4%	90.8%	50 - 150	
MGK 264	0.000	0.315	0.317	0.400	0.7%	< 30	78.8%	79.4%	50 - 150	
Myclobutanil	0.000	0.318	0.305	0.400	4.0%	< 30	79.5%	76.4%	50 - 150	
Naled	0.000	0.819	0.810	1.000	1.1%	< 30	81.9%	81.0%	50 - 150	
Oxamyl	0.000	2.141	1.883	2.000	12.8%	< 30	107.1%	94.2%	50 - 150	
Paclobutrazol	0.000	0.614	0.610	0.800	0.7%	< 30	76.8%	76.2%	50 - 150	
Parathion Methyl	0.651	1.086	1.100	0.800	3.0%	< 30	54.4%	56.1%	30 - 150	
Permethrin	0.000	0.265	0.254	0.400	4.0%	< 30	66.2%	63.5%	50 - 150	
Phosmet	0.000	0.330	0.332	0.400	0.4%	< 30	82.5%	82.9%	50 - 150	
Piperonyl butoxide	0.005	1.687	1.643	2.000	2.6%	< 30	84.1%	81.9%	50 - 150	
Prallethrin	0.022	0.407	0.424	0.400	4.3%	< 30	96.3%	100.5%	50 - 150	
Propiconazole	0.000	0.615	0.610	0.800	0.9%	< 30	76.9%	76.2%	50 - 150	
Propoxur	0.000	0.316	0.309	0.400	2.3%	< 30	79.1%	77.3%	50 - 150	
Pyrethrins	0.011	0.276	0.276	0.413	0.0%	< 30	64.2%	64.2%	50 - 150	
Pyridaben	0.000	0.274	0.268	0.400	2.4%	< 30	68.5%	66.9%	50 - 150	
Spinosad	0.000	0.332	0.319	0.388	4.0%	< 30	85.6%	82.2%	50 - 150	
Spiromesifen	0.000	0.297	0.298	0.400	0.4%	< 30	74.3%	74.6%	50 - 150	
Spirotetramat	0.000	0.383	0.387	0.400	1.1%	< 30	95.6%	96.7%	50 - 150	
Spiroxamine	0.000	0.740	0.742	0.800	0.2%	< 30	92.5%	92.7%	50 - 150	
Tebuconazol	0.000	0.617	0.610	0.800	1.2%	< 30	77.1%	76.2%	50 - 150	
Thiacloprid	0.000	0.266	0.264	0.400	0.7%	< 30	66.4%	66.0%	50 - 150	
Thiamethoxam	0.000	0.470	0.401	0.400	15.9%	< 30	117.5%	100.2%	50 - 150	
Trifloxystrobin	0.000	0.321	0.320	0.400	0.0%	< 30	80.1%	80.1%	50 - 150	

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Purchase Order:
Received: 10/12/21 14:15

Revision #: 0.00 Control : CFL-D06
Revision Date: 05/31/2019 Effective Date: 05/31/2019

Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2109283**

Laboratory Control Sample

Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	0.198	0.2	%	99.0	85.0 - 115	Acceptable	
CBDV	0.205	0.2	%	103	85.0 - 115	Acceptable	
CBE	0.199	0.2	%	99.5	85.0 - 115	Acceptable	
CBDA	0.219	0.2	%	109	85.0 - 115	Acceptable	
CBGA	0.191	0.2	%	95.7	85.0 - 115	Acceptable	
CBG	0.192	0.2	%	95.9	85.0 - 115	Acceptable	
CBD	0.213	0.2	%	107	85.0 - 115	Acceptable	
THCV	0.186	0.2	%	93.1	85.0 - 115	Acceptable	
d8THCV	0.191	0.2	%	95.3	85.0 - 115	Acceptable	
THCVA	0.190	0.2	%	94.8	85.0 - 115	Acceptable	
CBN	0.211	0.2	%	105	85.0 - 115	Acceptable	
exo-THC	0.183	0.2	%	91.6	85.0 - 115	Acceptable	
d9THC	0.199	0.2	%	99.3	85.0 - 115	Acceptable	
d8THC	0.186	0.2	%	93.1	85.0 - 115	Acceptable	
CBL	0.177	0.2	%	88.3	85.0 - 115	Acceptable	
CBC	0.190	0.2	%	95.1	85.0 - 115	Acceptable	
THCA	0.209	0.2	%	105	85.0 - 115	Acceptable	
CBCA	0.200	0.2	%	99.8	85.0 - 115	Acceptable	
CBLA	0.196	0.2	%	98.2	85.0 - 115	Acceptable	
CBT	0.194	0.2	%	97.0	85.0 - 115	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.1	%	< 0.1	Acceptable	
CBDV	<LOQ	0.1	%	< 0.1	Acceptable	
CBE	<LOQ	0.1	%	< 0.1	Acceptable	
CBDA	<LOQ	0.1	%	< 0.1	Acceptable	
CBGA	<LOQ	0.1	%	< 0.1	Acceptable	
CBG	<LOQ	0.1	%	< 0.1	Acceptable	
CBD	<LOQ	0.1	%	< 0.1	Acceptable	
THCV	<LOQ	0.1	%	< 0.1	Acceptable	
d8THCV	<LOQ	0.1	%	< 0.1	Acceptable	
THCVA	<LOQ	0.1	%	< 0.1	Acceptable	
CBN	<LOQ	0.1	%	< 0.1	Acceptable	
exo-THC	<LOQ	0.1	%	< 0.1	Acceptable	
d9THC	<LOQ	0.1	%	< 0.1	Acceptable	
d8THC	<LOQ	0.1	%	< 0.1	Acceptable	
CBL	<LOQ	0.1	%	< 0.1	Acceptable	
CBC	<LOQ	0.1	%	< 0.1	Acceptable	
THCA	<LOQ	0.1	%	< 0.1	Acceptable	
CBCA	<LOQ	0.1	%	< 0.1	Acceptable	
CBLA	<LOQ	0.1	%	< 0.1	Acceptable	
CBT	<LOQ	0.1	%	< 0.1	Acceptable	

Abbreviations

ND - None Detected at or above MRL
RPD - Relative Percent Difference
LOQ - Limit of Quantitation

Units of Measure:

% - Percent

Columbia LABORATORIES
A Tentamus Company

12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

Report Number: 21-012071/D004.R000
Report Date: 10/19/2021
ORELAP#: OR100028
Purchase Order:
Received: 10/12/21 14:15

Revision #: 0.00 Control : CFL-D06
Revision Date: 05/31/2019 Effective Date: 05/31/2019

Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2109283**

Sample Duplicate Sample ID: **21-012040-0001**

Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBN	25.3	25.6	0.1	%	1.22	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
d9THC	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	

Abbreviations

ND - None Detected at or above MRL
RPD - Relative Percent Difference
LOQ - Limit of Quantitation
NA - Calculation Not Applicable given non-numerical results

Units of Measure:

% - Percent

Columbia LABORATORIES
A Tentamus Company

12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

Report Number: 21-012071/D004.R000
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ORELAP#: OR100028
Purchase Order:
Received: 10/12/21 14:15

Revision: Document ID:
Legacy ID: Effective:

Laboratory Quality Control Results

Residual Solvents							Batch ID:	2109400				
Method Blank					Laboratory Control Sample							
Analyte	Result		LOQ	Notes	Result	Spike	Units	% Rec	Limits		Notes	
Propane	ND	<	200		459	407	µg/g	112.8	70	- 130		
Isobutane	ND	<	200		521	491	µg/g	106.1	70	- 130		
Butane	ND	<	200		515	491	µg/g	104.9	70	- 130		
2,2-Dimethylpropane	ND	<	200		734	609	µg/g	120.5	70	- 130		
Methanol	ND	<	200		1590	1610	µg/g	98.8	70	- 130		
Ethylene Oxide	ND	<	30		34.3	38.9	µg/g	88.2	70	- 130		
2-Methylbutane	ND	<	200		1540	1610	µg/g	95.7	70	- 130		
Pentane	ND	<	200		1530	1610	µg/g	95.0	70	- 130		
Ethanol	ND	<	200		1720	1610	µg/g	106.8	70	- 130		
Ethyl Ether	ND	<	200		1510	1610	µg/g	93.8	70	- 130		
2,2-Dimethylbutane	ND	<	30		147	164	µg/g	89.6	70	- 130		
Acetone	ND	<	200		1550	1610	µg/g	96.3	70	- 130		
2-Propanol	ND	<	200		1660	1610	µg/g	103.1	70	- 130		
Acetonitrile	ND	<	100		473	484	µg/g	97.7	70	- 130		
2,3-Dimethylbutane	ND	<	30		183	167	µg/g	109.6	70	- 130		
Dichloromethane	ND	<	60		478	491	µg/g	97.4	70	- 130		
2-Methylpentane	ND	<	30		168	165	µg/g	101.8	70	- 130		
3-Methylpentane	ND	<	30		173	172	µg/g	100.6	70	- 130		
Hexane	ND	<	30		163	167	µg/g	97.6	70	- 130		
Ethyl acetate	ND	<	200		1590	1610	µg/g	98.8	70	- 130		
2-Butanol	ND	<	200		1610	1610	µg/g	100.0	70	- 130		
Tetrahydrofuran	ND	<	100		498	483	µg/g	103.1	70	- 130		
Cyclohexane	ND	<	200		1450	1610	µg/g	90.1	70	- 130		
Benzene	ND	<	1		4.96	5.36	µg/g	92.5	70	- 130		
Isopropyl Acetate	ND	<	200		1690	1620	µg/g	104.3	70	- 130		
Heptane	ND	<	200		1540	1610	µg/g	95.7	70	- 130		
1,4-Dioxane	ND	<	100		489	489	µg/g	100.0	70	- 130		
2-Ethoxyethanol	ND	<	30		156	167	µg/g	93.4	70	- 130		
Ethylene Glycol	ND	<	200		476	504	µg/g	94.4	70	- 130		
Toluene	ND	<	200		462	484	µg/g	95.5	70	- 130		
Ethylbenzene	ND	<	200		944	968	µg/g	97.5	70	- 130		
m,p-Xylene	ND	<	200		982	977	µg/g	100.5	70	- 130		
o-Xylene	ND	<	200		1000	982	µg/g	101.8	70	- 130		
Cumene	ND	<	30		169	169	µg/g	100.0	70	- 130		

Columbia LABORATORIES
A Tentamus Company

12423 NE Whitaker Way
Portland, OR 97230
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ORELAP#: OR100028
Purchase Order:
Received: 10/12/21 14:15

Revision: Document ID:
Legacy ID: Effective:

QC - Sample Duplicate **Sample ID: 21-011973-0001**

Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Accept/Fail	Notes
Propane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Isobutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Butane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2,2-Dimethylpropane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Methanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethylene Oxide	ND	ND	30	µg/g	0.0	< 20	Acceptable	
2-Methylbutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Pentane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethyl Ether	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2,2-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Acetone	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Propanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Acetonitrile	ND	ND	100	µg/g	0.0	< 20	Acceptable	
2,3-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Dichloromethane	ND	ND	60	µg/g	0.0	< 20	Acceptable	
2-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
3-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Hexane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Ethyl acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Butanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Tetrahydrofuran	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Cyclohexane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Benzene	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Isopropyl Acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Heptane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
1,4-Dioxane	ND	ND	100	µg/g	0.0	< 20	Acceptable	
2-Ethoxyethanol	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Ethylene Glycol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Toluene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethylbenzene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
m,p-Xylene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
o-Xylene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Cumene	ND	ND	30	µg/g	0.0	< 20	Acceptable	

Abbreviations

ND - None Detected at or above MRL
RPD - Relative Percent Difference
LOQ - Limit of Quantitation

Units of Measure:

µg/g- Microgram per gram or ppm

Columbia LABORATORIES
A Tentamus Company

12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

Report Number: 21-012071/D004.R000
Report Date: 10/19/2021
ORELAP#: OR100028
Purchase Order:
Received: 10/12/21 14:15

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Terpenes Quality Control Results

Method Reference: EPA5035 — Batch ID: 2109407

	Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ		Notes	Result	LCS	Units	LCS % Rec	Limits	Notes
a-pinene	<LOQ	<	200		435	500	µg/g	87%	70 - 130	
Camphene	<LOQ	<	200		459	500	µg/g	92%	70 - 130	
Sabinene	<LOQ	<	200		429	500	µg/g	86%	70 - 130	
b-Pinene	<LOQ	<	200		425	500	µg/g	85%	70 - 130	
b-Myrcene	<LOQ	<	200		451	500	µg/g	90%	70 - 130	
a-phellandrene	<LOQ	<	200		463	500	µg/g	93%	70 - 130	
d-3-Carene	<LOQ	<	200		506	500	µg/g	101%	70 - 130	
a-Terpinene	<LOQ	<	200		384	500	µg/g	77%	70 - 130	
p-Cymene	<LOQ	<	200		444	500	µg/g	89%	70 - 130	
D-Limonene	<LOQ	<	200		412	500	µg/g	82%	70 - 130	
Eucalyptol	<LOQ	<	200		429	500	µg/g	86%	70 - 130	
b-cis-Ocimene	<LOQ	<	67		145	167	µg/g	87%	70 - 130	
b-trans-Ocimene	<LOQ	<	133		299	333	µg/g	90%	70 - 130	
g-Terpinene	<LOQ	<	200		427	500	µg/g	85%	70 - 130	
Sabinene_Hydrate	<LOQ	<	200		400	500	µg/g	80%	70 - 130	
Terpinolene	<LOQ	<	200		378	500	µg/g	76%	70 - 130	
D-Fenchone	<LOQ	<	200		432	500	µg/g	86%	70 - 130	
Linalool	<LOQ	<	200		474	500	µg/g	95%	70 - 130	
Fenchol	<LOQ	<	200		416	500	µg/g	83%	70 - 130	
Camphor	<LOQ	<	200		422	500	µg/g	84%	70 - 130	
Isopulego	<LOQ	<	200		444	500	µg/g	89%	70 - 130	
Isoborneol	<LOQ	<	200		422	500	µg/g	84%	70 - 130	
Borneol	<LOQ	<	200		419	500	µg/g	84%	70 - 130	
DL-Menthol	<LOQ	<	200		425	500	µg/g	85%	70 - 130	
Terpineol	<LOQ	<	200		399	500	µg/g	80%	70 - 130	
Nerol	<LOQ	<	200		390	500	µg/g	78%	70 - 130	
Pulegone	<LOQ	<	200		441	500	µg/g	88%	70 - 130	
Geraniol	<LOQ	<	200		437	500	µg/g	87%	70 - 130	
Geranyl_Acetate	<LOQ	<	200		408	500	µg/g	82%	70 - 130	
a-Cedrene	<LOQ	<	200		414	500	µg/g	83%	70 - 130	
b-Caryophyllene	<LOQ	<	200		385	500	µg/g	77%	70 - 130	
a-Humulene	<LOQ	<	200		461	500	µg/g	92%	70 - 130	
Valencene	<LOQ	<	200		366	500	µg/g	73%	70 - 130	
cis-Nerolidol	<LOQ	<	200		425	500	µg/g	85%	70 - 130	
a-Farnesene	<LOQ	<	200		494	500	µg/g	99%	70 - 130	
trans-Nerolidol	<LOQ	<	200		434	500	µg/g	87%	70 - 130	
Caryophyllene_Oxide	<LOQ	<	200		523	500	µg/g	105%	70 - 130	
Guaiol	<LOQ	<	200		438	500	µg/g	88%	70 - 130	
Cedrol	<LOQ	<	200		395	500	µg/g	79%	70 - 130	
a-Bisabolol	<LOQ	<	200		427	500	µg/g	85%	70 - 130	

Definitions

LOQ	Limit of Quantitation
LCS	Laboratory Control Sample
%REC	Percent Recovery

Columbia LABORATORIES
A Tentamus Company

12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

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Report Date: 10/19/2021
ORELAP#: OR100028
Purchase Order:
Received: 10/12/21 14:15

Revision: Document ID:
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Terpenes Quality Control Results

Method Reference: EPA5035 — Batch ID: 2109407

Sample/Sample Duplicate — Sample ID: 21-012071-0001

Analyte	Result	Org. Result	LOQ	Units	% RPD	LIMIT	Notes
a-pinene	1850	1790	187	µg/g	3%	< 20	
Camphene	292	292	187	µg/g	0%	< 20	
Sabinene	<LOQ	<LOQ	187	µg/g	0%	< 20	
b-Pinene	2400	2360	187	µg/g	2%	< 20	
b-Myrcene	44200	43000	187	µg/g	3%	< 20	
a-phellandrene	1010	969	187	µg/g	4%	< 20	
d-3-Carene	700	728	187	µg/g	4%	< 20	
a-Terpinene	1010	1030	187	µg/g	2%	< 20	
p-Cymene	295	247	187	µg/g	18%	< 20	
D-Limonene	10300	10100	187	µg/g	2%	< 20	
Eucalyptol	<LOQ	<LOQ	187	µg/g	0%	< 20	
b-cis-Ocimene	267	248	62.3	µg/g	7%	< 20	
b-trans-Ocimene	5850	5700	125	µg/g	3%	< 20	
g-Terpinene	704	699	187	µg/g	1%	< 20	
Sabinene_Hydrate	<LOQ	<LOQ	187	µg/g	0%	< 20	
Terpinolene	22800	22400	187	µg/g	2%	< 20	
D-Fenchone	<LOQ	<LOQ	187	µg/g	0%	< 20	
Linalool	1230	1200	187	µg/g	2%	< 20	
Fenchol	1040	1030	187	µg/g	1%	< 20	
Camphor	<LOQ	<LOQ	187	µg/g	0%	< 20	
Isopulego	<LOQ	<LOQ	187	µg/g	0%	< 20	
Isoborneol	<LOQ	<LOQ	187	µg/g	0%	< 20	
Borneol	240	240	187	µg/g	0%	< 20	
DL-Menthol	<LOQ	<LOQ	187	µg/g	0%	< 20	
Terpineol	917	898	187	µg/g	2%	< 20	
Nerol	<LOQ	<LOQ	187	µg/g	0%	< 20	
Pulegone	<LOQ	<LOQ	187	µg/g	0%	< 20	
Geraniol	<LOQ	<LOQ	187	µg/g	0%	< 20	
Geranyl_Acetate	<LOQ	<LOQ	187	µg/g	0%	< 20	
a-Cedrene	<LOQ	<LOQ	187	µg/g	0%	< 20	
b-Caryophyllene	7510	7390	187	µg/g	2%	< 20	
a-Humulene	3200	3080	187	µg/g	4%	< 20	
Valencene	624	572	187	µg/g	9%	< 20	
cis-Nerolidol	<LOQ	<LOQ	187	µg/g	0%	< 20	
a-Farnesene	6700	6590	187	µg/g	2%	< 20	
trans-Nerolidol	537	501	187	µg/g	7%	< 20	
Caryophyllene_Oxide	423	414	187	µg/g	2%	< 20	
Guaiol	5070	5010	187	µg/g	1%	< 20	
Cedrol	<LOQ	<LOQ	187	µg/g	0%	< 20	
a-Bisabolol	1100	1070	187	µg/g	3%	< 20	

Definitions

RPD — Relative Percent Difference

Columbia LABORATORIES
A Tentamus Company

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Portland, OR 97230
503-254-1794

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Explanation of QC Flag Comments:

Code	Explanation
Q	Matrix interferences affecting spike or surrogate recoveries.
Q1	Quality control result biased high. Only non-detect samples reported.
Q2	Quality control outside QC limits. Data considered estimate.
Q3	Sample concentration greater than four times the amount spiked.
Q4	Non-homogenous sample matrix, affecting RPD result and/or % recoveries.
Q5	Spike results above calibration curve.
Q6	Quality control outside QC limits. Data acceptable based on remaining QC.
R	Relative percent difference (RPD) outside control limit.
R1	RPD non-calculable, as sample or duplicate results are less than five times the LOQ.
R2	Sample replicates RPD non-calculable, as only one replicate is within the analytical range.
LOQ1	Quantitation level raised due to low sample volume and/or dilution.
LOQ2	Quantitaion level raised due to matrix interference.
B	Analyte detected in method blank, but not in associated samples.
B1	The sample concentration is greater than 5 times the blank concentration.
B2	The sample concentration is less than 5 times the blank concentration.

KCA Laboratories
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Certificate of Analysis

PAPL-0822-1

Sample ID: SA-220803-10960
Batch:
Type: In-Process Materials
Matrix: Concentrate - Distillate
Unit Mass (g):

Received: 09/20/2022
Co mpleted: 09/20/2022

Client
Alchemy Processing Laboratory, LLC.
16800 Coal Creek Canyon Road
Arvada, CO 80007
USA

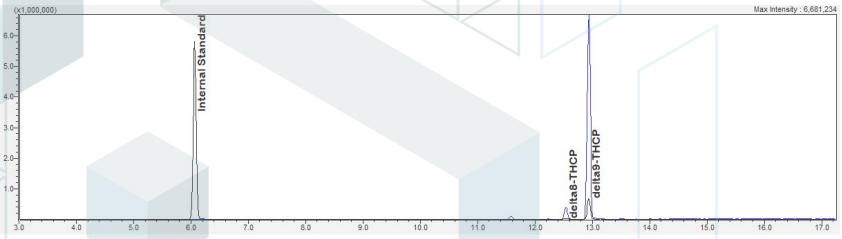
Summary

Test	Date Tested	Status
Cannabinoids	09/20/2022	Tested

ND	**82.4 %**	**86.2 %**	**Not Tested**	**Not Tested**	**Yes**
Total Δ9-THC	Δ9-THCP	Total Cannabinoids	Moisture Content	Foreign Matter	Internal Standard Normalization

Cannabinoids by HPLC-PDA, LC-MS/MS, and/or GC-MS/MS

Analyte	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)
CBC	0.0095	0.0284	ND	ND
CBCA	0.0181	0.0543	ND	ND
CBCV	0.006	0.018	ND	ND
CBD	0.0081	0.0242	ND	ND
CBDA	0.0043	0.013	ND	ND
CBDP	0.0067	0.02	ND	ND
CBDV	0.0061	0.0182	ND	ND
CBDVA	0.0021	0.0063	ND	ND
CBG	0.0057	0.0172	ND	ND
CBGA	0.0049	0.0147	ND	ND
CBL	0.0112	0.0335	ND	ND
CBLA	0.0124	0.0371	ND	ND
CBN	0.0056	0.0169	ND	ND
CBNA	0.006	0.0181	ND	ND
CBT	0.018	0.054	ND	ND
Δ8-THC	0.0104	0.0312	0.0394	0.394
Δ8-THCP	0.0067	0.02	3.78	37.8
Δ9-THC	0.0076	0.0227	ND	ND
Δ9-THCA	0.0084	0.0251	ND	ND
Δ9-THCP	0.0067	0.02	82.4	824
Δ9-THCV	0.0069	0.0206	ND	ND
Δ9-THCVA	0.0062	0.0186	ND	ND
Total Δ9-THC			**ND**	**ND**
Total CBD			**ND**	**ND**
Total			**86.2**	**862**



ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; RL = Reporting Limit; Δ = Delta; Total Δ9-THC = Δ9-THCA * 0.877 + Δ9-THC; Total CBD = CBDA * 0.877 + CBD;

Generated By: Ryan Bellone
Commercial Director
Date: 08/17/2022

Tested By: Scott Caudill
Senior Scientist
Date: 08/17/2022

ISO/IEC 17025:2017 Accredited
Accreditation #108651