

The client sample was analyzed for plant-based cannabinoids by Liquid Chromatography (LC). The collected data was compared to data collected for certified reference standards at known concentrations.

JJ007-011					
ID	Weight %	Concentration (mg/g)			
D9-THC	ND	ND			
THCV	ND	ND			
CBD	1.84	18.4			
CBDV	0.100	1.00			
CBG	1.85	18.5			
CBC	0.536	5.36			
CBN	0.193	1.93			
THCA	ND	ND			
CBDA	ND	ND			
CBGA	ND	ND			
D8-THC	ND	ND			
exo-THC	ND	ND			
Total	4.51	45.1	0%	Cannabinoids (wt%)	1.8%
Max THC	ND	ND		Limit of Quantitation (LOQ) =	0.0102 wt%
Max CBD	1.84	18.4		Limit of Detection (LOD) =	0.0034 wt%

Max THC (and Max CBD) are calculated values for total cannabinoids after heating, assuming complete decarboxylation of the acid to the neutral form. It is calculated based on the weight loss of the acid group during decarboxylation: Max THC = $(0.877 \times THCA) + THC$. This calculation does not include other cannabinoid isomers (eg. D8-THC and exo-THC). ND = None detected above the limits of detection (LOD), which is one third of LOQ.

END OF REPORT

93607-CN



Certified Organic Full-Spectrum **CBG** extract Lab results

Potency
 Heavy Metals
 Microbial
 Mycotoxin
 Pesticides

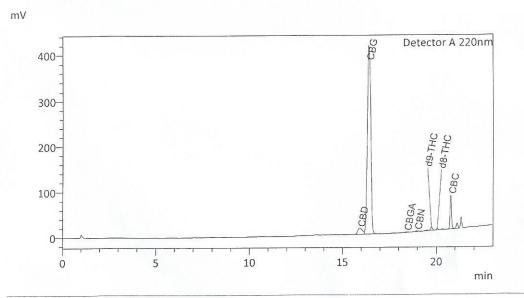


Certificate of Analysis

Sample Information

Sample ID		: P-NHC-CBG-1MB1_12162019	
Sample Type		: Whole Plant Extract, CO2	
Analyst	1.00	: KB	
Receipt Date		: NA	
Test Date		: 12/17/2019	

Chromatogram



Cannabinoid Summary

ID#	Name	Weight %
1	CBDV	0.00
2	CBD	2.78
3	CBG	66.95
4	CBDA	0.00
5	CBGA	0.11
6	CBN	0.08
7	d9-THC	0.69
8	d8-THC	0.25
9	CBC	4.89
10	THCA-A	0.00

Total CBG	67.05	%
Total CBG	670.53	mg/g
Total THC	0.69	%
Total THC	6.89	mg/g



Percentage data represents weight percentage of sample The collected data was compared to data collected for certified reference standards at known concentrations. Total THC = THCa * 0.877 + d9-THC; Total CBD = CBDa * 0.877 + CBD; Instrument: High Performance Liquid Chromatography (HPLC) A value of 0.00 indicates that the cannabinoid was not detected (ND), however it could be present at a level below the limit of detection.



P-NHC-CBG-1MB

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Serving Size

Total Cannabinoids

BATCH # N/A - Tested 12/20/2019 for Safety

SAFETY PROFILES

Heavy Metals Screen

	Allowable Limit	Amount Detected	Limit of Detection	Limit of Quantification	Disposition
Arsenic	200 ppb	ND	41.9 ppb	127.0 ppb	N/A
Cadmium	200 ppb	204 ppb	37.7 ppb	114.1 ppb	N/A
Mercury	100 ppb	BQL	21.6 ppb	65.6 ppb	N/A
Lead	500 ppb	ND	20.6 ppb	62.6 ppb	N/A

Microbiological Contaminant Screen

	Allowable Limit	Amount Detected	Disposition
Total Viable Aerobic Bacteria	10000 CFU/g	<100 CFU/g	N/A
Total Yeast & Mold	1000 CFU/g	<100 CFU/g	N/A
Total Bile-Tolerant Gram Negative Bacteria	100 CFU/g	<100 CFU/g	N/A
STEC	Not Detected in 1 gram	Not Detected	N/A
Salmonella	Not Detected in 1 gram	Not Detected	N/A

PHRlabs

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Mycotoxin Screen

	Allowable Limit	Amount Detected	Limit of Detection	Limit of Quantification	Disposition
Ochratoxin A	N/A	ND	2.3 ppb	7.6 ppb	N/A
Aflatoxin B1	5 ppb	ND	1.0 ppb	3.3 ppb	N/A
Aflatoxin B2	N/A	ND	1.9 ppb	6.3 ppb	N/A
Aflatoxin G1	N/A	ND	1.2 ppb	4.0 ppb	N/A
Aflatoxin G2	N/A	ND	1.1 ppb	3.6 ppb	N/A

Pesticide Screen

	Allowable Limit	Amount Detected	Limit of Detection	Limit of Quantification	Disposition
Imazalil	7.9 ppb	ND	7.9 ppb	25.9 ppb	N/A
Imidacloprid	34.7 ppb	ND	34.7 ppb	114.4 ppb	N/A
Myclobutanil	14.8 ppb	ND	14.8 ppb	49 ppb	N/A
Trifloxystrobin	17.9 ppb	ND	17.9 ppb	59.1 ppb	N/A
Acephate	19.6 ppb	ND	19.6 ppb	64.8 ppb	N/A
Acetamiprid	8.7 ppb	ND	8.7 ppb	28.8 ppb	N/A
Aldicarb	13.3 ppb	ND	13.3 ppb	43.9 ppb	N/A
Carbaryl	11.2 ppb	ND	11.2 ppb	37 ppb	N/A
Chlorantraniliprole	14.7 ppb	ND	14.7 ppb	48.4 ppb	N/A
Chlorpyrifos	16.4 ppb	ND	16.4 ppb	54 ppb	N/A
Clofentezine	20.5 ppb	ND	20.5 ppb	67.5 ppb	N/A
DDVP	21.7 ppb	ND	21.7 ppb	71.6 ppb	N/A
Dimethoate	14.9 ppb	ND	14.9 ppb	49.1 ppb	N/A
Ethoprophos	18.8 ppb	ND	18.8 ppb	62.2 ppb	N/A
Fenoxycarb	8.7 ppb	ND	8.7 ppb	28.8 ppb	N/A
Fenpyroximate	6.3 ppb	ND	6.3 ppb	20.7 ppb	N/A

PHRlabs

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Flonicamid	9.5 ppb	ND	9.5 ppb	31.3 ppb	N/A
Fludioxonil	N/A	N/A	N/A	N/A	N/A
Malathion	19.9 ppb	ND	19.9 ppb	65.8 ppb	N/A
Metalaxyl	13.9 ppb	ND	13.9 ppb	45.9 ppb	N/A
Methiocarb .	13.9 ppb	ND	13.9 ppb	45.8 ppb	N/A
Methomyl	15.7 ppb	ND	15.7 ppb	51.9 ppb	N/A
Naled	6.6 ppb	ND	6.6 ppb	21.7 ppb	N/A
Oxamyl	16.2 ppb	ND	16.2 ppb	53.4 ppb	N/A
Propoxur	19.8 ppb	ND	19.8 ppb	65.3 ppb	N/A
Pyridaben	14.5 ppb	ND	14.5 ppb	47.7 ppb	N/A
Spirotetramat	14.6 ppb	ND	14.6 ppb	48.2 ppb	N/A
Spiroxamine	19 ppb	ND	19 ppb	62.7 ppb	N/A
Tebuconazole	17 ppb	ND	17 ppb	56.2 ppb	N/A
Thiacloprid	12.9 ppb	ND	12.9 ppb	42.8 ppb	N/A
Thiamethoxam	11.6 ppb	ND	11.6 ppb	38.4 ppb	N/A

Percentage data represents weight percentage of sample as received by PLIR Labs. This report and all information herein shall not be reproduced except in its entirety without the expressed consent of PHR Labs. Results may vary. Results are only for the sample supplied to PHR Labs.

This product has not been analyzed or approved by the FDA. There is limited information on the side effects of using this product, and there may be associated health risks. Marijuana use during pregnancy and breast-leading may pose potential harms. Do not drive or operate machinery when under the influence of this product. ATEP THIS PRODUCT AWAY FROM CHILDREN.

2020 Downyflake In, #301 Allentown, PA 18103 Monday - Friday 10:30 am - 5:00 pm





Broad Spectrum **CBD** Extract Lab Results

Potency
 Microbial
 Solvents
 Heavy Metals
 Pesticides





Report Number:	20-006149/D04.R00
Report Date:	06/23/2020
ORELAP#:	OR100028
Purchase Order:	
Received:	06/16/20 09:05

Customer:	Welliva
Product identity:	EE-01-003
Client/Metrc ID:	
Laboratory ID:	20-006149-0001

Su	mr	nar	'V

Analyte	Result (%)			
CBD	30.9		CBD-Total	30.9%
CBC	7.74		L	
CBN	3.48	• CBD	THC-Total	<loq< td=""></loq<>
CBG [†]	2.27			
CBDV [†]	1.33	 CBN CBG 	(Reported in pe	ercent of total sample)
		CBDV		

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

lyte Result Limits Status (mg/kg) (mg/kg)
prophos 0.10 0.20 pass

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.

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Report Number:	20-006149/D04.R00
Report Date:	06/23/2020
ORELAP#:	OR100028
Purchase Order:	
Received:	06/16/20 09:05

Customer:	Welliva
Product identity: Client/Metrc ID:	EE-01-003
Sample Date: Laboratory ID:	20-006149-0001

Received By Mail

19.1 °C

Relinquished by:

Temp:

Sample Results

Potency	Method	J AOAC 2015 V98-6 (mod)	Batch: 2005103	Analyze: 6/17/20 8:15:00 PM
Analyte	As I	Dry LOQ Notes		
	Received v	weight		
CBC	7.74	0.0887		
CBC-A [†]	< LOQ	0.0887		• CBD
CBC-Total [†]	7.74	0.166		• CBC
CBD	30.9	0.887		CBN
CBD-A	< LOQ	0.0887		● CBG
CBD-Total	30.9	0.964		• CBDV
CBDV [†]	1.33	0.0887		
CBDV-A [†]	< LOQ	0.0887		
CBDV-Total [†]	1.33	0.165		
CBG [†]	2.27	0.0887		
CBG-A [†]	< LOQ	0.0887		
CBG-Total	2.27	0.165		
CBL [†]	< LOQ	0.0887		
CBN	3.48	0.0887		
$\Delta 8\text{-THC}^{\dagger}$	< LOQ	0.0887		
∆9-THC	< LOQ	0.0887		
THC-A	< LOQ	0.0887		
THC-Total	< LOQ	0.166		
THCV [↑]	< LOQ	0.0887		
THCV-A [†]	< LOQ	0.0887		
THCV-Total [†]	< LOQ	0.165		
Total Cannabinoids [†]	45.7			

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Microbiology								
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Aerobic Plate Count	< LOQ		cfu/g	10	2005001	06/18/20	AOAC 990.12 (Petrifilm)	Х
E.coli	< LOQ		cfu/g	10	2004999	06/18/20	AOAC 991.14 (Petrifilm)	Х
Total Coliforms	< LOQ		cfu/g	10	2004999	06/18/20	AOAC 991.14 (Petrifilm)	Х
Staphylococcus aureus	< LOQ		cfu/g	10	2005000	06/17/20	AOAC 2003.07	Х
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2004998	06/18/20	AOAC 2014.05 (RAPID)	Х
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2004998	06/18/20	AOAC 2014.05 (RAPID)	Х
Salmonella spp.	Negative		/1g		2004992	06/17/20	AOAC 2016.01	Х

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prior arrangements have been made.



Method EPA5021A

380

160

5000

2.00

3880

5000

5000

50.0

5000

600

5000

890

2170

Limits LOQ Status

100

30.0

30.0

30.0

30.0

200

1.00

200

200

200

30.0

200

200

200

200

30.0

200

200

100

600

pass

Result

< LOQ

Solvents

1,4-Dioxane

2-Ethoxyethanol

2-Methylpentane

2,2-Dimethylbutane

2,3-Dimethylbutane

Analyte

Acetone

Benzene

Cyclohexane

Ethyl acetate

Ethylene oxide

Isopropyl acetate

Methylene chloride

Total Xylenes and Ethyl

Ethyl ether

m,p-Xylene

n-Butane

n-Hexane

o-Xylene

Propane

Toluene

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



Notes

Units µg/g

Analyte

2-Butanol

2-Methylbutane

2-Propanol (IPA)

3-Methylpentane

Acetonitrile

Ethanol[†]

Methanol

n-Heptane

n-Pentane

Butanes (sum)

Ethyl benzene

Ethylene glycol

Hexanes (sum)

Methylpropane

Pentanes (sum)

Tetrahydrofuran

Total Xylenes

Isopropylbenzene

2,2-Dimethylpropane

Batch 2

< LOQ

Report N	umber:	20-	00614	9/D04.R00	
Report D	ate:	06/2	23/202	0	
ORELAP	#:	OR	10002	8	
Purchase	Order:				
Received	:	06/	16/20	09:05	
2005130	Analyz	e 06/1	9/20 ()9:48 AM	
Result	Limits	LOQ	Status	Notes	
< LOQ	5000	200	pass		
< LOQ		200			
< LOQ	5000	200	pass		
< LOQ		200			

30.0

100

400

200

200

200

150

30.0

200

200

200

200

600

100

400

pass

pass

pass

pass

pass

pass

pass

pass

pass

410

5000

620

290

70.0

3000

5000

5000

720

- - - - - -

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



Report Nu	umber:	20-006149/D04.R00				
Report Da	ite:	06/23/202	20			
ORELAP#	ŧ:	OR10002	28			
Purchase Order:						
Received	:	06/16/20	09:05			
05099	Analyze	06/18/20	11:03 AM			
Pocult	Limite I C		Notes			

Pesticides	Method	AOAC	2007.01 & EN	l 15662 (mod)	Units mg/kg	Batch 20	05099	Analy	ze 06/18/20 11:03 AM
Analyte	Result	Limits	s LOQ Status	Notes	Analyte		Result	Limits	S 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		Chlorantranilip	orole	< 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		0.10	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	e	< 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	e	< 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 buto	xide	< 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 (tot	al)	< 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	า	< LOQ	0.20	0.100 pass
Trifloxystrobin	< LOQ	0.20	0.100 pass						

Metals Analyte Result Limits Units LOQ Batch Analyze Method Notes Arsenic < LOQ 0.0399 2005167 06/22/20 AOAC 2013.06 (mod.) Х mg/kg mg/kg Cadmium < LOQ 0.0399 2005167 06/22/20 AOAC 2013.06 (mod.) Х < LOQ mg/kg 0.0399 2005167 06/22/20 AOAC 2013.06 (mod.) Х Lead < LOQ 0.0199 06/22/20 AOAC 2013.06 (mod.) Х Mercury mg/kg 2005167

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Report Number: 20-006149/D04.R00 **Report Date:** 06/23/2020 **ORELAP#:** OR100028 **Purchase Order:** Received: 06/16/20 09:05

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

cfu/g = Colony forming units per gram µg/g = Microgram per gram mg/kg = Milligram per kilogram = parts per million (ppm) /1g = Per 1 gram % = Percentage of sample % wt = $\mu g/g$ divided by 10,000

Glossary of Qualifiers

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner General Manager

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Report Number:	20-006149/D04.R00
Report Date:	06/23/2020
ORELAP#:	OR100028
Purchase Order:	
Received:	06/16/20 09:05

Revision: 1.00 Control: CFL-C21 Revised: 08/12/2019 Effective: 08/15/2019

AOAC 2007.1 & EN 15662			Units:	ide Qua mg/Kg				Bat	tch ID: 200509	9
Matrix Spike/Matrix Spike D	ouplicate Recov	/eries					Sample ID:	20-005991-0		
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS% Rec	MSD % Rec	Limits	Notes
Acephate	0.000	0.980	1.006	1.000	2.6	< 30	98.0	100.6	50 - 150	1
Acequinocyl	0.200	3.981	3.916	4.000	1.7	< 30	94.5	92.9	50 - 150	1
Acetamiprid	0.000	0.425	0.423	0.400	0.3	< 30	106.2	105.8	50 - 150	1
Aldicarb	0.000	0.817	0.823	0.800	0.7	< 30	102.1	102.9	50 - 150	-
Abamectin	0.000	1.010	0.880	1.000	13.8	< 30	101.0	88.0	50 - 150	
Azoxystrobin	0.016	0.407	0.403	0.400	1.0	< 30	98.0	96.9	50 - 150	1
Bifenazate	0.004	0.448	0.432	0.400	3.8	1 < 30	111.2	107.0	50 - 150	
Bifenthrin	0.018	0.384	0.343	0.400	11.2	< 30	91.4	81.2	50 - 150	-
Boscalid	0.019	0.835	0.879	0.800	5.2	< 30	102.0	107.6	50 - 150	1
Carbaryl	0.006	0.404	0.419	0.400	3.7	< 30	99.6	103.4	50 - 150	
Carbofuran	0.015	0.404	0.413	0.400	3.2	< 30	102.8	106.3	50 - 150	-
Chlorantraniliprol	0.000	0.427	0.389	0.400	15.7	< 30	102.8	97.3	50 - 150	-
Chlorfenapyr	0.000	2.194	2.510	2.000	13.4	< 30	109.7	125.5	50 - 150	
		0.404	1		2.5		99.1			
Chlorpyrifos Clofentezine	0.008	0.404	0.415	0.400	2.5	< 30	99.1	101.7 114.5	50 - 150	-
	0.011									-
Cyfluthrin	0.000	2.188	1.947	2.000	11.6	< 30	109.4	97.3		<u> </u>
Cypermethrin	0.000	2.178	2.067	2.000	5.2	< 30	108.9	103.3	50 - 150	
Daminozide	0.036	2.102	2.118	2.000	0.7	< 30	103.3	104.1	30 - 150	-
Diazinon	0.010	0.445	0.464	0.400	4.3	< 30	108.7	113.5	50 - 150	
Dichlorvos	0.021	1.999	1.926	2.000	3.8	< 30	98.9	95.2	50 - 150	
Dimethoat	0.005	0.407	0.409	0.400	0.6	< 30	100.3	101.0	50 - 150	
Ethoprophos	0.015	0.391	0.415	0.400	6.1	< 30	94.1	100.2	50 - 150	
Etofenprox	0.035	0.927	0.917	0.800	1.1	< 30	111.5	110.2	50 - 150	
Etoxazol	0.011	0.397	0.395	0.400	0.5	< 30	96.5	96.0	50 - 150	
Fenoxycarb	0.000	0.455	0.444	0.400	2.4	< 30	113.7	111.1	50 - 150	
Fenpyroximat	0.000	0.771	0.745	0.800	3.5	< 30	96.4	93.1	50 - 150	
Fipronil	0.030	0.987	0.971	0.800	1.6	< 30	119.7	117.7	50 - 150	
Flonicamid	0.019	0.998	1.040	1.000	4.1	< 30	97.9	102.1	50 - 150	1
Fludioxonil	0.000	0.811	0.789	0.800	2.7	< 30	101.4	98.7	50 - 150	
Hexythiazox	0.000	2.074	1.978	1.000	4.7	< 30	207.4	197.8	50 - 150	Q1
Imazalil	0.003	0.347	0.332	0.400	4.3	< 30	85.9	82.2	50 - 150	
Imidacloprid	0.016	0.905	0.877	0.800	3.2	< 30	111.1	107.5	50 - 150	1
Kresoxim-Methyl	0.000	0.877	0.816	0.800	7.2	< 30	109.6	102.0	50 - 150	1
Malathion	0.007	0.429	0.438	0.400	2.1	< 30	105.4	107.7	50 - 150	1
Metalaxyl	0.004	0.418	0.419	0.400	0.1	< 30	103.5	103.6	50 - 150	1
Methiocarb	0.007	0.446	0.434	0.400	2.8	< 30	109.8	106.7	50 - 150	
Methomyl	0.000	0.776	0.799	0.800	2.9	< 30	97.1	99.9	50 - 150	1
MGK 264	0.000	0.465	0.462	0.400	0.6	< 30	116.3	115.6	50 - 150	
Myclobutanil	0.000	0.420	0.407	0.400	3.1	< 30	105.0	101.8	50 - 150	
Naled	0.000	1.140	1.131	1.000	0.7	< 30	114.0	113.1	50 - 150	-
Oxamvl	0.000	2.063	2.011	2.000	2.6	< 30	103.2	100.6	50 - 150	1
Paclobutrazol	0.000	0.911	0.897	0.800	1.5	< 30	113.8	112.2	50 - 150	
Parathion Methyl	0.000	0.911	1.033	0.800	5.1	< 30	113.8	129.1	30 - 150	
Permethrin	0.000	0.382	0.425	0.400	1.4	1 < 30	104.2	105.8	50 - 150	-
Phosmet	0.001	0.418	0.423	0.400	5.3	< 30	104.2	105.8	50 - 150	-
Piperonyl butoxide	0.000	2.182	2.036	2.000	5.3 6.9	< 30	101.4	106.9	50 - 150	
Prallethrin	0.000	0.628	0.637	0.400	1.4	< 30	108.5	101.2 159.2	50 - 150	01
Propiconazole	0.000	0.628	0.637	0.400	0.8	< 30	108.5	109.4	50 - 150	u u
	0.003	0.871	0.878	0.800	0.8	< 30	98.1	98.4	50 - 150	-
Propoxur		0.406			8.2					-
Pyrethrins	0.005		0.436	0.413		< 30	113.5	104.4	50 - 150	-
Pyridaben	0.012	0.417	0.394	0.400	5.6	< 30	101.2	95.6	50 - 150	-
pinosad	0.000	0.357	0.357	0.388	0.1	< 30	92.0	92.0	50 - 150	
Spiromesifen	0.000	0.492	0.494	0.400	0.4	< 30	122.9	123.4	50 - 150	L
Spirotetramat	0.000	0.418	0.435	0.400	3.9	< 30	104.6	108.8	50 - 150	
Spiroxamine	0.020	0.780	0.778	0.800	0.3	< 30	95.0	94.8	50 - 150	
lebuconazol	0.026	0.994	1.008	0.800	1.4	< 30	121.0	122.8	50 - 150	
Thiacloprid	0.000	0.415	0.417	0.400	0.4	< 30	103.8	104.2	50 - 150	
Thiamethoxam	0.000	0.422	0.419	0.400	0.9	< 30	105.6	104.6	50 - 150	
Trifloxystrobin	0.013	0.419	0.421	0.400	0.3	< 30	101.5	102.0	50 - 150	1

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Page 10 of 15 <u>www.columbialaboratories.com</u> Page 10 of 15 Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.





Report Number:	20-006149/D04.R00
Report Date:	06/23/2020
ORELAP#:	OR100028
Purchase Order:	
Received:	06/16/20 09:05

Revision: 1.00 Control: CFL-C21 Revised: 08/12/2019 Effective: 08/15/2019

AOAC 2007.1 & EN 15662		Units:	mg/Kg			Ba	tch ID: 200509	9
wethod Blank				Laboratory Con		100000 million		
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Acephate	0.000	< 0.200		0.956	1.000	95.6	68.4 - 125	ļ
Acequinocyl	0.287	< 1.000		3.678	4.000	92.0	79.1 - 119	<u> </u>
Acetamiprid	0.000	< 0.100		0.412	0.400	103.0	81.1 - 117	Ļ
Aldicarb	0.000	< 0.200		0.778	0.800	97.2	77.2 - 120	1
Abamectin	0.000	< 0.288		0.977	1.000	97.7	73.5 - 125	<u> </u>
Azoxystrobin	0.018	< 0.100		0.372	0.400	93.1	72.4 - 126	
Bifenazate	0.001	< 0.100		0.412	0.400	103.1	81.5 - 116	
Bifenthrin	0.013	< 0.100		0.394	0.400	98.4	78.3 - 120	
Boscalid	0.020	< 0.100		0.690	0.800	86.3	74.8 - 126	1
Carbaryl	0.006	< 0.100		0.379	0.400	94.7	79.9 - 119	1
Carbofuran	0.017	< 0.100		0.406	0.400	101.4	81.8 - 118	1
Chlorantraniliprol	0.000	< 0.100		0.401	0.400	100.2	75.0 - 127	1
Chlorfenapyr	0.000	< 1.000		2.152	2.000	107.6	68.3 - 127	1
Chlorpyrifos	0.012	< 0.100		0.392	0.400	97.9	73.2 - 117	1
Clofentezine	0.011	< 0.100		0.395	0.400	98.9	67.1 - 125	1
Cyfluthrin	0.000	< 1.000		2.071	2.000	103.6	69.7 - 129	1
Cypermethrin	0.017	< 1.000		2.036	2.000	101.8	80.2 - 119	1
Daminozide	0.039	< 1.000	1	1.981	2.000	99.0	75.1 - 120	1
Diazinon	0.011	< 0.100		0.393	0.400	98.1	80.0 - 118	1
Dichlorvos	0.021	< 0.500	-	2.011	2.000	100.6	76.1 - 117	1
Dimethoat	0.006	< 0.100		0.406	0.400	100.0	79.8 - 117	-
Ethoprophos	0.016	< 0.100		0.408	0.400	101.5	72.3 - 126	-
Etofenprox	0.010	< 0.100		0.408	0.400	97.3	82.6 - 116	<u> </u>
Etoxazol	0.011	< 0.100		0.370	0.800	97.5	77.6 - 120	<u> </u>
	0.000	< 0.100		0.370	0.400	102.8		<u> </u>
enoxycarb								ļ
enpyroximat	0.001	< 0.100		0.777	0.800	97.2	82.5 - 115	L
ipronil	0.041	< 0.100		0.828	0.800	103.5	78.4 - 121	
lonicamid	0.027	< 0.400		1.011	1.000	101.1	79.0 - 121	<u> </u>
Iudioxonil	0.000	< 0.100		0.810	0.800	101.3	73.1 - 136	
Hexythiazox	0.020	< 0.400		1.003	1.000	100.3	81.5 - 118	1
mazalil	0.006	< 0.100		0.429	0.400	107.3	79.1 - 126	1
midacloprid	0.022	< 0.200		0.832	0.800	104.0	78.0 - 119	
Kresoxim-Methyl	0.006	< 0.100		0.783	0.800	97.9	75.7 - 126	1
Malathion	0.009	< 0.100		0.401	0.400	100.4	77.8 - 120	1
Metalaxyl	0.004	< 0.100		0.416	0.400	103.9	75.8 - 123	1
Methiocarb	0.009	< 0.100		0.404	0.400	101.1	78.7 - 122	1
Methomyl	0.000	< 0.200		0.793	0.800	99.2	73.2 - 125	1
MGK 264	0.009	< 0.100		0.405	0.400	101.2	79.7 - 119	1
Myclobutanil	0.000	< 0.100		0.385	0.400	96.1	83.4 - 115	1
Naled	0.010	< 0.200		1.046	1.000	104.6	73.2 - 124	1
Dxamyl	0.000	< 0.400		2.043	2.000	102.2	71.8 - 126	1
Paclobutrazol	0.000	< 0.200		0.798	0.800	99.7	81.9 - 117	1
Parathion Methyl	0.000	< 0.200	-	0.995	0.800	124.4	68.5 - 127	1
Permethrin	0.000	< 0.100		0.393	0.400	98.1	79.0 - 117	1
Phosmet	0.000	< 0.100		0.401	0.400	100.3	81.2 - 118	1
Piperonyl butoxide	0.042	< 1.000	-	2.032	2.000	100.5	83.2 - 121	-
Prallethrin	0.042	< 0.200		0.414	0.400	101.0	70.1 - 130	-
Propiconazole	0.018	< 0.200		0.414	0.400	103.4	81.1 - 116	
Propoxur	0.014	< 0.100		0.394	0.800	98.5	81.8 - 114	-
vrethrins	0.014	< 0.500		0.394	0.400	98.5	69.9 - 130	-
				0.436	0.413	105.7		-
Pyridaben	0.013	< 0.100						-
pinosad	0.000	< 0.100		0.404	0.388	104.0	83.3 - 125	
piromesifen	0.000	< 0.100		0.403	0.400	100.7	68.9 - 128	
pirotetramat	0.007	< 0.100		0.401	0.400	100.2	80.6 - 118	
Spiroxamine	0.021	< 0.100		0.802	0.800	100.2	79.4 - 119	
lebuconazol	0.013	< 0.200	-	0.830	0.800	103.8	79.8 - 119	
Thiacloprid	0.009	< 0.100		0.406	0.400	101.6	79.2 - 118	
Thiamethoxam	0.000	< 0.100		0.390	0.400	97.5	72.3 - 127	1
Trifloxystrobin	0.014	< 0.100		0.408	0.400	102.1	80.0 - 118	1

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Report Number: 20-006149/D04.R00 **Report Date:** 06/23/2020 ORELAP#: OR100028 **Purchase Order:**

Received:

06/16/20 09:05

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

Laboratory Quality Control Results									
JAOAC2015	V986			Bat	ch ID: 2005103				
Laboratory Q	ontrol Sample								
Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes		
CBDV-A	0.205	0.2	%	103	85.0 - 115	Acceptable			
CBDV	0.208	0.2	%	104	85.0 - 115	Acceptable			
CBD-A	0.198	0.2	%	98.8	85.0 - 115	Acceptable			
CBG-A	0.203	0.2	%	102	85.0 - 115	Acceptable			
CBG	0.206	0.2	%	103	85.0 - 115	Acceptable			
CBD	0.181	0.2	%	90.3	85.0 - 115	Acceptable			
THCV	0.193	0.2	%	96.7	85.0 - 115	Acceptable			
THCVA	0.195	0.2	%	97.5	85.0 - 115	Acceptable			
CBN	0.189	0.2	%	94.6	85.0 - 115	Acceptable			
THC	0.196	0.2	%	98.2	85.0 - 115	Acceptable			
D8THC	0.194	0.2	%	97.2	85.0 - 115	Acceptable			
CBL	0.193	0.2	%	96.5	85.0 - 115	Acceptable			
CBC	0.204	0.2	%	102	85.0 - 115	Acceptable			
THCA	0.173	0.2	%	86.4	85.0 - 115	Acceptable			
CBCA	0.191	0.2	%	95.5	85.0 - 115	Acceptable			

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDV-A	<loq< td=""><td>0.01</td><td>%</td><td>< 0.01</td><td>Acceptable</td><td></td></loq<>	0.01	%	< 0.01	Acceptable	
CBDV	<loq< td=""><td>0.01</td><td>%</td><td>< 0.01</td><td>Acceptable</td><td></td></loq<>	0.01	%	< 0.01	Acceptable	
CBD-A	<loq< td=""><td>0.01</td><td>%</td><td>< 0.01</td><td>Acceptable</td><td></td></loq<>	0.01	%	< 0.01	Acceptable	
CBG-A	<loq< td=""><td>0.01</td><td>%</td><td>< 0.01</td><td>Acceptable</td><td></td></loq<>	0.01	%	< 0.01	Acceptable	
CBG	<loq< td=""><td>0.01</td><td>%</td><td>< 0.01</td><td>Acceptable</td><td></td></loq<>	0.01	%	< 0.01	Acceptable	
CBD	⊲LOQ	0.01	%	< 0.01	Acceptable	
THCV	⊲LOQ	0.01	%	< 0.01	Acceptable	
THCVA	<loq< td=""><td>0.01</td><td>%</td><td>< 0.01</td><td>Acceptable</td><td></td></loq<>	0.01	%	< 0.01	Acceptable	
CBN	<loq< td=""><td>0.01</td><td>%</td><td>< 0.01</td><td>Acceptable</td><td></td></loq<>	0.01	%	< 0.01	Acceptable	
THC	<loq< td=""><td>0.01</td><td>%</td><td>< 0.01</td><td>Acceptable</td><td></td></loq<>	0.01	%	< 0.01	Acceptable	
D8THC	<loq< td=""><td>0.01</td><td>%</td><td>< 0.01</td><td>Acceptable</td><td></td></loq<>	0.01	%	< 0.01	Acceptable	
CBL	<loq< td=""><td>0.01</td><td>%</td><td>< 0.01</td><td>Acceptable</td><td></td></loq<>	0.01	%	< 0.01	Acceptable	
CBC	⊲LOQ	0.01	%	< 0.01	Acceptable	
THCA	⊲LOQ	0.01	%	< 0.01	Acceptable	
CBCA	<loq.< td=""><td>0.01</td><td>%</td><td>< 0.01</td><td>Acceptable</td><td></td></loq.<>	0.01	%	< 0.01	Acceptable	

Abbreviations

ND - None Detected at or above MRL

RPD - Relative Percent Difference

LOQ - Limit of Quantitation

Units of Measure

%- Percent

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Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Columbia Laboratories quality assurance plan
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Report Number:	20-006149/D04.R00
Report Date:	06/23/2020
ORELAP#:	OR100028
Purchase Order:	

Received:

06/16/20 09:05

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

Laboratory Quality Control Results									
JAOAC2015 \	/986				Bato	h ID: 200510	3		
Sample Duplica	ate				Sam	ple ID: 20-00598	88-0001		
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes	
CBDV-A	⊲LOQ	⊲LOQ	0.1	%	NA	< 20	Acceptable		
CBDV	⊲LOQ	⊲LOQ	0.1	%	NA	< 20	Acceptable		
CBD-A	⊲LOQ	⊲LOQ	0.1	%	NA	< 20	Acceptable		
CBG-A	⊲LOQ	⊲LOQ	0.1	%	NA	< 20	Acceptable		
CBG	2.30	2.24	0.1	%	2.71	< 20	Acceptable		
CBD	17.8	17.3	0.1	%	2.59	< 20	Acceptable		
THCV	0.528	0.515	0.1	%	2.36	< 20	Acceptable		
THCVA	⊲LOQ	⊲LOQ	0.1	%	NA	< 20	Acceptable		
CBN	0.515	0.502	0.1	%	2.59	< 20	Acceptable		
THC	74.0	71.2	0.1	%	3.84	< 20	Acceptable		
D8THC	⊲LOQ	⊲LOQ	0.1	%	NA	< 20	Acceptable		
CB.	<loq< td=""><td>⊲LOQ</td><td>0.1</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	⊲LOQ	0.1	%	NA	< 20	Acceptable		
CBC	3.01	2.91	0.1	%	3.41	< 20	Acceptable		
THCA	<loq< td=""><td>⊲LOQ</td><td>0.1</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	⊲LOQ	0.1	%	NA	< 20	Acceptable		
CBCA	⊲LOQ	₹UOQ	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

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Page 13 of 15 <u>www.columbialaboratories.com</u> Page 13 of 15 Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.





Report Number:	20-006149/D04.R00
Report Date:	06/23/2020
ORELAP#:	OR100028
Purchase Order:	
Received:	06/16/20 09:05

EPA 5021						Bat	ch ID:	200513	30			
Method Blank Laboratory Control Sample												
Analyte	Result		LOQ	Notes	Result	Spike	Units	% Rec	L	imi	ts No	otes
Butane	ND	<	200		1810	1,520	µg/g	119.1	70	-	130	
2-Methylbutane	ND	<	200		3960	3,210	µg/g	123.4	70	-	130	
Pentane	ND	<	200		3260	3,210	µg/g	101.6	70	-	130	

Qc - Sample Duplica	ie –	Sample ID: 20-005505-0005										
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Accept/Fail	Notes				
Butane	ND	ND	200	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					

Abbreviations

ND - None Detected at or above MRL

RPD - Relative Percent Difference LOQ - Limit of Quantitation

* Screening only

Q1 Quality Control result biased high. Only non detect samples reported.

Units of Measure:

µg/g- Microgram per gram or ppm mg/Kg - Milligrams per Kilogram

Aw- Water Activity unit

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Page 14 of 15 <u>www.columbialaboratories.com</u> Page 14 of 15 Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.





Report Number: 20-006149/D04.R00 **Report Date:** 06/23/2020 ORELAP#: OR100028 **Purchase Order: Received:** 06/16/20 09:05

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.
В	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.

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Page 15 of 15 <u>www.columbialaboratories.com</u> Page 15 of 15 Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.