



# JOY ORGANICS

## CERTIFICATE OF ANALYSIS

**PRODUCT NAME:** Joy Organics Sports Cream  
**PRODUCT STRENGTH:** 400 mg  
**LOT NUMBER:** 20139-03  
**BEST BY DATE:** 05/28/2022  
**HEMP EXTRACT LOT NUMBER\*:** [JP090319B7](#)

*\*Click on the links to view third-party reports\**

### Physical Attributes

Test	Method	Specification	Results
Color	SOP-100	white to off white	PASS
Odor	SOP-100	Blend of Menthol, Camphor, Eucalyptus, Lavender, Rosemary, Wintergreen & Marjoram.	PASS
Appearance	SOP-100	Creamy smooth cream consistently with medium viscosity	PASS
Primary Package Eval.	SOP-132	Container clean and free of filth. Lid intact.	PASS
Secondary Package Eval.	SOP-132	Labeling Compliance Checked, Cartons sturdy and clean. Sufficient cushion material exists. Box taped and secure.	PASS

### Review of Third-Party Analysis

Panel	Method	Specification	Results*	Pass/Fail
<b>Potency - Total CBD</b>	SOP-111	380-500 mg CBD LOQ**: 10 PPM† (0.001%)	<a href="#">415.6mg</a>	PASS
<b>Potency - D9-THC</b>	SOP-111	None Detected LOQ: 10 PPM (0.001%)	<a href="#">ND</a>	PASS
<b>Compliant Pesticide Panel</b>	SOP-111	Action Limits for Oregon Pesticides used in Cannabis	<a href="#">ND</a>	PASS
<b>Microbial - Stec E.Coli</b>	SOP-111	Complies with USP 61/62	<a href="#">Below LOD</a>	PASS
<b>Microbial - Salmonella</b>	SOP-111	Complies with USP 61/62	<a href="#">Below LOD</a>	PASS
<b>Microbial - Mold</b>	SOP-111	Complies with USP 61/62	<a href="#">Below LOD</a>	PASS
<b>CA Compliant Heavy Metal Panel</b>	SOP-111	Arsenic (As): ≤1.5 PPM Cadmium (Cd): ≤0.5 PPM Mercury (Hg): ≤1.0 PPM Lead (Pb): ≤0.5 PPM	<a href="#">Below LOQ</a>	PASS

\* \*\*Level of Quantitation, † Parts Per Million

Quality Certified by:

*Darcie Moran*

06/05/2020

Darcie Moran  
Manager of Quality Assurance

Date



HSC400 20139-03

Certificate of Compliance

Lot# 20139-03

Joy Organics

certificate ID  
0FC46

total cannabinoids **per**  
**441.4mg** **4oz bottle**

terpenes NT  
THC‡ ND  
CBD‡ 416.0mg

This Product  
Has Been  
Tested and  
Complies with  
7USC1639o(1)

Stillwater  
Laboratories

received 6/3/20 12:00 AM

CAL infused

test ID  
sample ID 0FC46  
order 7459  
sample wgt 113.6 g  
source ID Lot# 20139-03

Description and Inspection

DESCRIPTION: Topical cream sample (113.60g) received in a client-labelled bottle, by commercial courier. Labelled with METRC tag Lot.



Potency	result	LOD	LOQ	error (95%CI k=2)	Terpenes	result	LOD	LOQ	error (95%CI k=2)
<b>total cannabinoids</b>	<b>441.4mg</b>	<b>&lt;0.00</b>	<b>0.00</b>	<b>±7.90mg</b>	<b>total terpenes</b>	<b>NT</b>			
<b>total THC</b>	<b>ND</b>	<b>&lt;0.00</b>	<b>0.00</b>	<b>±0.00mg</b>	linalool	NT			
<b>total CBD</b>	<b>416.0mg</b>	<b>&lt;0.00</b>	<b>0.00</b>	<b>±7.45mg</b>	β-myrcene	NT			
tetrahydrocannabinolic acid (THCa)	ND	<0.00	0.00	±0.00mg	D-limonene	NT			
Δ9-tetrahydrocannabinol (Δ9 THC)	ND	<0.00	0.00	±0.00mg	α-pinene	NT			
Δ8-tetrahydrocannabinol (Δ8 THC)	ND	0.00	0.00	±0.00mg	β-pinene	NT			
tetrahydrocannabivarin (THCv)	ND	<0.00	0.00	±0.00mg	ocimene	NT			
cannabidiolic acid (CBDA)	0.5mg	<0.00	0.00	±0.01mg	terpinolene	NT			
cannabidiol (CBD)	415.6mg	<0.00	0.00	±7.44mg	α-humulene	NT			
cannabidivarin (CBDv)	2.5mg	<0.00	0.00	±0.05mg	β-caryophyllene	NT			
cannabigerolic acid (CBGA)	ND	<0.00	0.00	±0.00mg	α-bisabolol	NT			
cannabigerol (CBG)	21.3mg	0.00	0.00	±0.38mg	camphene	NT			
cannabinol (CBN)	ND	<0.00	0.00	±0.00mg	Δ3-carene	NT			
cannabichromene (CBC)	1.5mg	<0.00	0.00	±0.03mg	caryophyllene oxide	NT			
‡ decarbed					para-cymene	NT			
					eucalyptol	NT			
					geraniol	NT			
					guaial	NT			
					isopulegol	NT			
					cis-nerolidol	NT			
					trans-nerolidol	NT			
					α-terpinene	NT			
					γ-terpinene	NT			

Mycotoxins

Microbial

FAIL: no failures  
PASS: Ochratoxin A, Aflatoxin B1B2G1G2, Aflatoxin B1, Aflatoxin B2, Aflatoxin G1, Aflatoxin G2

FAIL: no failures  
PASS: E coli, Salmonella sp., molds

Pesticides

FAIL: no failures  
PASS: Abamectin, Acephate, Acequinocyl, Acetamiprid, Aldicarb, Azoxystrobin, Bifenazate, Bifenthrin, Boscalid, Carbaryl, Carbofuran, Chloanthraniliprole, Chlorfenapyr, Chloromequat, Chlorpyrifos, Clofentezine, Coumaphos, Cyfluthrin, Cypermethrin, Daminozide, Dichlorvos, Diazinon, Dimethoate, Ethoprop, Ethoprop, Etoxazole, Fenoxycarb, Fenpyroximate, Fipronil, Flonicamid, Fludioxonil, Hexythiazox, Imazalil, Imidacloprid, Malathion, Metalaxyl, Methiocarb, Methomyl, Methyl parathion, Mevinphos, Myclobutanil, Naled, Oxamyl, Pacllobutrazol, Permethrin, Phosmet, Piperonylbutoxide, Prallethrin, Propiconazole, Propoxur, Pyrethrin, Pyridaben, Spinetoram, Spinosad, Spiromesifen, Spiromesifen, Spiromesifen, Spirotetramat, Spiroxamine, Tebuconazole, Thiachloprid, Thiamethoxam, Trifloxystrobin

Residual Solvents

FAIL: no failures  
PASS: Dichloroethane, Acetone, Acetonitrile, Benzene, Butane, Chloroform, Cyclohexane, Ethanol, Ethyl acetate, Heptane, Hexane, Isopropyl alcohol, Methanol, Pentane, Propane, Toluene, Xylenes

Metals

FAIL: no failures  
PASS: Arsenic, Cadmium, Lead, Mercury

Certified by:

Stillwater Laboratories Inc.  
MT License L0001, L00007  
6073 US93N Suite 5  
Olney MT 59927  
406-881-2019

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ISO/IEC 17025:2017



Kyle Larson, MSc (Biology)  
Deputy Director

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6/29/2020 5:54 PM

page 1 of 2

Certificate #4961.01  
<https://portal.a2la.org/scopepdf/4961-01.pdf>

Methods	SOP ID	equipment	Comments	Pesticides	result	limit	LOD	LOQ	error	pass/fail	
potency	MSP-7.5.1.4	LC-2030C		Abamectin	ND	0.3 ppm	0.005	0.015	±0.015 ppm	P	
terpenes	MSP-7.5.1.6	QP2020/HS20		Acephate	ND	5.0 ppm	0.005	0.015	±0.015 ppm	P	
solvents	MSP-7.5.1.7	QP2020/HS20		Acequinocyl	ND	4.0 ppm	0.004	0.013	±0.013 ppm	P	
pesticides	MSP-7.5.1.8	LCMS8060		Acetamiprid	ND	5.0 ppm	0.001	0.003	±0.003 ppm	P	
mycotoxins	MSP-7.5.1.8	LCMS8060		Aldicarb	ND	0.0 ppm	0.001	0.004	±0.004 ppm	P	
microbial	MSP-7.5.1.10	Hardy Diag		Azoxystrobin	ND	40.0 ppm	0.001	0.004	±0.004 ppm	P	
metals	MSP-7.5.1.11	ICPMS2030		Bifenazate	ND	5.0 ppm	0.001	0.003	±0.003 ppm	P	
				Bifenthrin	ND	0.5 ppm	0.001	0.002	±0.002 ppm	P	
				Boscalid	ND	10.0 ppm	0.014	0.042	±0.042 ppm	P	
Mycotoxins	result	limit	LOD LOQ error	pass/fail	Captan	NT	5.0 ppm			NA	
Ochratoxin A	ND	20 ppb	0.3   0.9   ±0.9 ppb	P	Carbaryl	ND	0.006	0.017	±0.017 ppm	P	
Aflatoxin B1B2G1G2	ND	20 ppb	0.3   0.9   ±0.9 ppb	P	Carbofuran	ND	0.0 ppm	0.001	0.003	±0.003 ppm	P
Microbial	result	limit	LOD LOQ error	pass/fail	Chloanthraniliprole	ND	40.0 ppm	0.013	0.040	±0.040 ppm	P
E coli	ND	0CFU	0.0   0.1   ±0.1CFU	P	Chlordane	NT	0.0 ppm			NA	
Salmonella sp.	ND	0CFU	0.0   0.1   ±0.1CFU	P	Chlorfenapyr	ND	0.0 ppm	0.004	0.011	±0.011 ppm	P
molds	ND	10000CFU	1.7   5.0   ±5.0CFU	P	Chlormequat	ND	0.0 ppm	0.005	0.016	±0.016 ppm	P
Metals	result	limit	LOD LOQ error	pass/fail	Chlorpyrifos	ND	0.0 ppm	0.028	0.083	±0.083 ppm	P
Arsenic	ND	1500 ppb	<0.0   0.0   ±?.? ppb	P	Clofentezine	ND	0.5 ppm	0.005	0.015	±0.015 ppm	P
Cadmium	ND	500 ppb	<0.0   0.0   ±?.? ppb	P	Coumaphos	ND	0.0 ppm	0.004	0.011	±0.011 ppm	P
Lead	ND	500 ppb	<0.0   0.0   ±?.? ppb	P	Cyfluthrin	ND	1.0 ppm	0.005	0.015	±0.015 ppm	P
Mercury	ND	3000 ppb	<0.0   0.0   ±?.? ppb	P	Cypermethrin	ND	1.0 ppm	0.004	0.011	±0.011 ppm	P
Residual Solvents	result	limit	LOD LOQ error	pass/fail	Daminozide	ND	0.0 ppm	0.019	0.057	±0.057 ppm	P
Dichloroethane	ND	0 ppm	0.5   1.6   ±1.6 ppm	P	Dichlorvos	ND	0.0 ppm	0.010	0.029	±0.029 ppm	P
Acetone	ND	5000 ppm	0.7   2.1   ±2.1 ppm	P	Diazinon	ND	0.2 ppm	0.001	0.002	±0.002 ppm	P
Acetonitrile	ND	410 ppm	0.6   1.9   ±1.9 ppm	P	Dimethoate	ND	0.0 ppm	0.001	0.004	±0.004 ppm	P
Benzene	ND	0 ppm	0.0   0.1   ±0.1 ppm	P	Dimethomorph	NT	20.0 ppm			NA	
Butane	ND	5000 ppm	1.4   4.2   ±4.2 ppm	P	Ethoprop	ND	0.0 ppm	0.002	0.005	±0.005 ppm	P
Chloroform	ND	0 ppm	0.1   0.2   ±0.2 ppm	P	Ethoprop	ND	0.0 ppm	0.002	0.005	±0.005 ppm	P
Cyclohexane	ND	0 ppm	0.5   1.6   ±1.6 ppm	P	Etoxazole	ND	1.5 ppm	0.003	0.008	±0.008 ppm	P
Ethanol	ND	5000 ppm	0.7   2.1   ±2.1 ppm	P	Fenhexamid	NT	10.0 ppm			NA	
Ethyl acetate	ND	5000 ppm	0.5   1.6   ±1.6 ppm	P	Fenoxycarb	ND	0.0 ppm	0.002	0.007	±0.007 ppm	P
Ethyl ether	NT	5000 ppm		NA	Fenpyroximate	ND	2.0 ppm	0.001	0.002	±0.002 ppm	P
Ethylene oxide	NT	0 ppm		NA	Fipronil	ND	0.0 ppm	0.005	0.015	±0.015 ppm	P
Heptane	ND	5000 ppm	0.4   1.2   ±1.2 ppm	P	Fonicamid	ND	2.0 ppm	0.067	0.202	±0.202 ppm	P
Hexane	ND	290 ppm	0.5   1.6   ±1.6 ppm	P	Fludioxonil	ND	30.0 ppm	0.004	0.013	±0.013 ppm	P
Isopropyl alcohol	828 ppm	5000 ppm	0.6   1.9   ±23.4 ppm	P	Hexythiazox	ND	2.0 ppm	0.006	0.019	±0.019 ppm	P
Methanol	112 ppm	3000 ppm	0.5   1.6   ±4.5 ppm	P	Imazaili	ND	0.0 ppm	0.004	0.013	±0.013 ppm	P
Methylene chloride	NT	0 ppm		NA	Imidacloprid	ND	3.0 ppm	0.001	0.002	±0.002 ppm	P
Pentane	ND	5000 ppm	0.2   0.6   ±0.6 ppm	P	KresoxymMethyl	NT	1.0 ppm			NA	
Propane	ND	5000 ppm	0.5   1.6   ±1.6 ppm	P	Malathion	ND	5.0 ppm	0.003	0.010	±0.010 ppm	P
Toluene	ND	890 ppm	0.3   0.9   ±0.9 ppm	P	Metalaxyl	ND	15.0 ppm	0.005	0.015	±0.015 ppm	P
Trichloroethylene	NT	0 ppm		NA	Methiocarb	ND	0.0 ppm	0.002	0.007	±0.007 ppm	P
Xylenes	ND	2170 ppm	0.3   1.0   ±1.0 ppm	P	Methomyl	ND	0.1 ppm	0.004	0.012	±0.012 ppm	P
					Methyl parathion	ND	0.0 ppm	0.001	0.002	±0.002 ppm	P
					Mevinphos	ND	0.0 ppm	0.004	0.011	±0.011 ppm	P
					Myclobutanil	ND	9.0 ppm	0.001	0.002	±0.002 ppm	P
					Naled	ND	0.5 ppm	0.004	0.011	±0.011 ppm	P
					Oxamyl	ND	0.2 ppm	0.002	0.005	±0.005 ppm	P
					Paclobutrazol	ND	0.0 ppm	0.002	0.006	±0.006 ppm	P
					PCNB	NT	0.2 ppm			NA	
					Permethrin	ND	20.0 ppm	0.007	0.020	±0.020 ppm	P
					Phosmet	ND	0.2 ppm	0.002	0.006	±0.006 ppm	P
					Piperonylbutoxide	ND	8.0 ppm	0.007	0.021	±0.021 ppm	P
					Prallethrin	ND	0.4 ppm	0.003	0.008	±0.008 ppm	P
					Propiconazole	ND	20.0 ppm	0.003	0.008	±0.008 ppm	P
					Propoxur	ND	0.0 ppm	0.004	0.012	±0.012 ppm	P
					Pyrethrin	ND	1.0 ppm	0.002	0.005	±0.005 ppm	P
					Pyridaben	ND	3.0 ppm	0.001	0.002	±0.002 ppm	P
					Spinetoram	ND	3.0 ppm	0.002	0.007	±0.007 ppm	P
					Spinosad	ND	3.0 ppm	0.004	0.013	±0.013 ppm	P
					Spiromesifen	ND	12.0 ppm	0.002	0.006	±0.006 ppm	P
					Spiromesifen	ND	12.0 ppm	0.002	0.006	±0.006 ppm	P
					Spiromesifen	ND	12.0 ppm	0.002	0.006	±0.006 ppm	P
					Spirotetramat	ND	13.0 ppm	0.002	0.005	±0.005 ppm	P
					Spiroxamine	ND	0.0 ppm	0.001	0.002	±0.002 ppm	P
					Tebuconazole	ND	2.0 ppm	0.003	0.010	±0.010 ppm	P
					Thiacloprid	ND	0.1 ppm	0.001	0.002	±0.002 ppm	P
					Thiamethoxam	ND	4.5 ppm	0.002	0.006	±0.006 ppm	P
					Trifloxystrobin	ND	30.0 ppm	0.002	0.005	±0.005 ppm	P

\* All testing was completed onsite at 6073 US93N, Olney MT \*\* Potency (cannabinoid concentration) is calculated from the equation: [cannabinoid] = [cannabinoid]<sub>HPLC</sub> x volume<sub>dilution</sub>/m<sub>dry</sub>. Terpene concentration is calculated from the equation: [terpene] = (terpene mass)<sub>GCMS</sub> / m<sub>dry</sub>. \*\*\* Decarboxyted cannabinoid concentration is calculated from the equation XXX<sub>total</sub> = 0.877 x XXX<sub>a</sub> + XXX \*\*\*\* Standards are used to calibrate the resulting data and estimate error using a standard estimate of error method; LOD is the limit of detection (3.3s), LOQ is the limit of quantification (3xLOD), and experimental error is calculated from weighing, dilution, and interpolation error using the formula s<sub>g</sub><sup>2</sup> = Σ(∂f/∂i)<sup>2</sup>s<sub>i</sub><sup>2</sup> where i is the contributor to error. The 95% confidence range is calculated from the equation: (concentration) ± t<sub>CL90</sub> x s<sub>g</sub>. Sampling error is not considered in error calculations. ND = not detected (< LOD), NT = not tested, P = pass, F = fail, NL = no limit, NA = not applicable.

Certified by:



Kyle Larson, MSc (Biology)  
Deputy Director

**Stillwater Laboratories Inc.**  
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406-881-2019

<https://portal.a2la.org/scopepdf/4961-01.pdf>



This is an amended version of report# 19-012757/D02.R00.  
Reason: Updated report formatting.

**Product identity:** JP090319B7  
**Laboratory ID:** 19-012757-0002

**Client/Metric ID:** .  
**Sample Date:**

**Summary**

**Potency:**

Analyte	Result (%)				
CBD	81.9		<ul style="list-style-type: none"> <li><span style="color: red;">●</span> CBD</li> <li><span style="color: blue;">●</span> CBDV</li> </ul>	CBD-Total	81.9%
CBDV†	1.86			THC-Total	< 0.177%
			(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
(-)-Guaiol†	0.619	35.17%	(-)-caryophyllene oxide†	0.511	29.03%
β-Caryophyllene†	0.450	25.57%	Humulene†	0.0795	4.52%
Linalool†	0.0594	3.38%	(-)-a-Terpineol†	0.0411	2.34%
<b>Total Terpenes†</b>	<b>1.76</b>	<b>100.00%</b>			

**Metals:**

Less than LOQ for all analytes.

**Microbiology:**

Less than LOQ for all analytes.



**Customer:** My CBD Test

**Product identity:** JP090319B7

**Client/Metric ID:** .

**Sample Date:**

**Laboratory ID:** 19-012757-0002

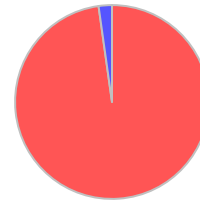
**Relinquished by:** UPS

**Temp:** 23.4 °C

### Sample Results

Potency Method J AOAC 2015 V98-6 Units % Batch 1909717 Analyze 10/22/19 05:04 PM

Analyte	As Received	Dry weight	LOQ	Notes
CBC†	< LOQ		0.0943	
CBC-A†	< LOQ		0.0943	
CBC-Total†	< LOQ		0.177	
CBD	81.9		0.943	
CBD-A	< LOQ		0.0943	
CBD-Total	81.9		1.03	
CBDV†	1.86		0.0943	
CBDV-A†	< LOQ		0.0943	
CBDV-Total†	1.86		0.176	
CBG†	< LOQ		0.0943	
CBG-A†	< LOQ		0.0943	
CBG-Total†	< LOQ		0.176	
CBL†	< LOQ		0.0943	
CBN	< LOQ		0.0943	
Δ8-THC†	< LOQ		0.0943	
Δ9-THC	< LOQ		0.0943	
THC-A	< LOQ		0.0943	
THC-Total	< LOQ		0.177	
THCV†	< LOQ		0.0943	
THCV-A†	< LOQ		0.0943	
THCV-Total†	< LOQ		0.176	



● CBD  
● CBDV

### Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
E.coli	< LOQ		cfu/g	10	1909486	10/21/19	AOAC 991.14 (Petrifilm)	X
Total Coliforms	< LOQ		cfu/g	10	1909486	10/21/19	AOAC 991.14 (Petrifilm)	X
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	1909487	10/21/19	AOAC 2014.05 (RAPID)	X
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	1909487	10/21/19	AOAC 2014.05 (RAPID)	X



Solvents					Method EPA5021A	Units µg/g	Batch 1909460	Analyze 10/23/19 02:28 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	30.0	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	200	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	

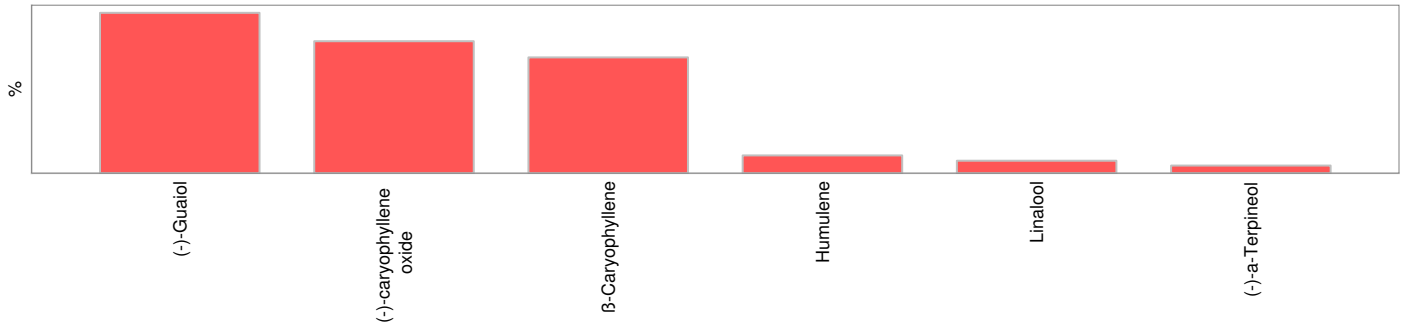




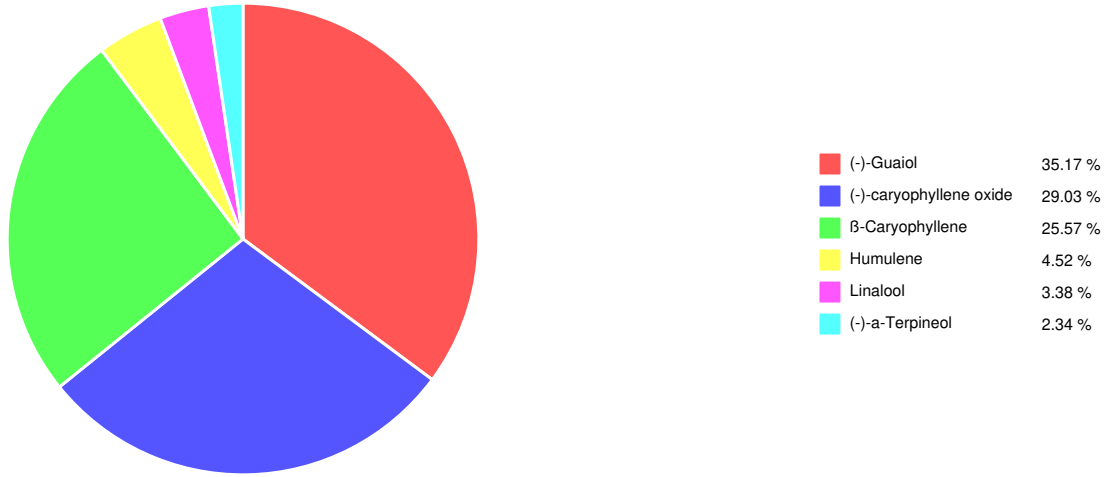
Pesticides											
Method AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 1909507 Analyze 10/21/19 09:49 AM											
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin	< LOQ	0.50	0.250	pass		Acephate	< LOQ	0.40	0.250	pass	
Acequinocyl	< LOQ	2.0	1.00	pass		Acetamiprid	< 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		Etoazole	< 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		Fonicamid	< 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		Paclbutrazole	< 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							



Terpenes				Method J AOAC 2015 V98-6	Units %	Batch 1909461	Analyze 10/18/19 12:07 PM		
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
(-)-Guaial <sup>†</sup>	0.619	0.020	35.17%		(-)-caryophyllene oxide <sup>†</sup>	0.511	0.020	29.03%	
β-Caryophyllene <sup>†</sup>	0.450	0.020	25.57%		Humulene <sup>†</sup>	0.0795	0.020	4.52%	
Linalool <sup>†</sup>	0.0594	0.020	3.38%		(-)-a-Terpeneol <sup>†</sup>	0.0411	0.020	2.34%	
(-)-Isopulegol <sup>†</sup>	< LOQ	0.020	0.00%		(-)-β-Pinene <sup>†</sup>	< LOQ	0.020	0.00%	
(+)-Borneol <sup>†</sup>	< LOQ	0.020	0.00%		(+)-Cedrol <sup>†</sup>	< LOQ	0.020	0.00%	
(+)-fenchol <sup>†</sup>	< LOQ	0.020	0.00%		(+)-Pulegone <sup>†</sup>	< LOQ	0.020	0.00%	
(±)-Camphor <sup>†</sup>	< LOQ	0.020	0.00%		(±)-cis-Nerolidol <sup>†</sup>	< LOQ	0.020	0.00%	
(±)-fenchone <sup>†</sup>	< LOQ	0.020	0.00%		(±)-trans-Nerolidol <sup>†</sup>	< LOQ	0.020	0.00%	
(R)-(+)-Limonene <sup>†</sup>	< LOQ	0.020	0.00%		a-Bisabolol <sup>†</sup>	< LOQ	0.020	0.00%	
a-cedrene <sup>†</sup>	< LOQ	0.020	0.00%		a-phellandrene <sup>†</sup>	< LOQ	0.020	0.00%	
a-pinene <sup>†</sup>	< LOQ	0.020	0.00%		a-Terpinene <sup>†</sup>	< LOQ	0.020	0.00%	
Camphene <sup>†</sup>	< LOQ	0.020	0.00%		cis-β-Ocimene <sup>†</sup>	< LOQ	0.006	0.00%	
d-3-Carene <sup>†</sup>	< LOQ	0.020	0.00%		Eucalyptol <sup>†</sup>	< LOQ	0.020	0.00%	
farnesene <sup>†</sup>	< LOQ	0.020	0.00%		gamma-Terpinene <sup>†</sup>	< LOQ	0.020	0.00%	
Geraniol <sup>†</sup>	< LOQ	0.020	0.00%		Geranyl acetate <sup>†</sup>	< LOQ	0.020	0.00%	
Isoborneol <sup>†</sup>	< LOQ	0.020	0.00%		Menthol <sup>†</sup>	< LOQ	0.020	0.00%	
nerol <sup>†</sup>	< LOQ	0.020	0.00%		p-Cymene <sup>†</sup>	< LOQ	0.020	0.00%	
Sabinene <sup>†</sup>	< LOQ	0.020	0.00%		Sabinene hydrate <sup>†</sup>	< LOQ	0.020	0.00%	
β-Myrcene <sup>†</sup>	< LOQ	0.020	0.00%		Terpinolene <sup>†</sup>	< LOQ	0.020	0.00%	
trans-β-Ocimene <sup>†</sup>	< LOQ	0.013	0.00%		valencene <sup>†</sup>	< LOQ	0.020	0.00%	
<b>Total Terpenes</b>	<b>1.76</b>								







**Metals**

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Arsenic	< LOQ		mg/kg	0.100	1909726	10/25/19	AOAC 2013.06 (mod.)	X
Cadmium	< LOQ		mg/kg	0.100	1909726	10/25/19	AOAC 2013.06 (mod.)	X
Lead	< LOQ		mg/kg	0.100	1909726	10/25/19	AOAC 2013.06 (mod.)	X
Mercury	< LOQ		mg/kg	0.100	1909726	10/25/19	AOAC 2013.06 (mod.)	X



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)

% = Percentage of sample

% wt = µg/g divided by 10,000

**Glossary of Qualifiers**

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner  
General Manager