HEMP LABORATORY TEST

CERTIFICATE OF ANALYSIS

Hemp Analysis - Summary

Tested by high-performance liquid chromatography with ultraviolet detection (HPLC-UV).

Scan to verify at sclabs.com

TOTAL THC[1]

0.0042%[2]

CANNABINOID PROFILE

0.1307% Total CBD[1]
0.1421% Total Cannabinoids[3]
Terpenes Not Tested

1) Total THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step: Total THC = Δ9THC + (THCa (0.877)) and Total CBD = CBD + (CBDa (0.877)).
2) As defined by the 2018 Farm Bill, hemp must contain no more than 0.3% Total THC, defined as the concentration of delta-9 tetrahydrocannabinol (Δ-9-THC) post-decarboxylation - see formula above.
3) Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

Additional Testing

Pass/Fail defined at action limits set by California Code of Regulations Title 16. Effective date: January 16, 2019. Authority: Section 26013, Business Professions Code. Reference: Sections 26100, 26104, and 26110, Business Professions Code.

Hemp Pain Cream

Tested for: LCF Labs

Address:

Batch #:

Sample ID: 191220R001
Date Collected: 12/20/2019
Date Received: 12/20/2019

Final Approval

Josh Wurzer, President
Date: 12/21/2019

These results relate only to the sample included on this report. This report shall not be reproduced except in full, without written approval of the laboratory. The uncertainty of measurement associated with the measurement result reported in this certificate is available from SC Laboratories upon request.

HEMP LABORATORY TEST
CERTIFICATE OF ANALYSIS

SC Laboratories, LLC
100 Pioneer Street, Suite E
Santa Cruz, CA 95060
(866) 435-0709 | sclabs.com

Sample Name:	Hemp Pain Cream
LIMS Sample ID:	191220R001
Batch #:	
Source Metrc ID(s):	
Sample Type:	Infused, Topical
Batch Count:	
Sample Count:	
Unit Mass:	100 Grams per Unit
Serving Mass:	
Density:	

Date Collected:	12/20/2019
Date Received:	12/20/2019
Tested for:	LCF Labs
License #:	
Address:	
Produced by:	
License #:	
Address:	

Moisture Test Results

	Results (%)
Moisture	NT

Cannabinoid Test Results 12/21/2019

Cannabinoid analysis utilizing High Performance Liquid Chromatography (HPLC, QSP 5-4-4-4)

	mg/g	%	LOD / LOQ mg/g
Δ9THC	0.042	0.0042	0.0009 / 0.003
Δ8THC	ND	ND	0.0009 / 0.003
THCa	ND	ND	0.0009 / 0.003
THCV	ND	ND	0.0004 / 0.001
THCVa	ND	ND	0.0013 / 0.004
CBD	1.307	0.1307	0.0009 / 0.003
CBDa	ND	ND	0.0009 / 0.003
CBDV	0.006	0.0006	0.0004 / 0.001
CBDVa	ND	ND	0.0003 / 0.001
CBG	ND	ND	0.001 / 0.003
CBGa	ND	ND	0.0008 / 0.002
CBL	ND	ND	0.0021 / 0.006
CBN	ND	ND	0.0009 / 0.003
CBC	0.066	0.0066	0.0011 / 0.003
CBCa	ND	ND	0.0015 / 0.005
Sum of Cannabinoids:	**1.421**	**0.1421**	**142.100 mg/Unit**
Total THC (Δ9THC+0.877*THCa)	0.042	0.0042	4.200 mg/Unit
Total CBD (CBD+0.877*CBDa)	1.307	0.1307	130.700 mg/Unit

	Action Limit mg		
Δ9THC per Unit	1000.0	Pass	4.200 mg/Unit
Δ9THC per Serving			

Terpene Test Results

Terpene analysis utilizing Gas Chromatography - Flame Ionization Detection (GC - FID)

	mg/g	%	LOD / LOQ mg/g
⍰ Bisabolol	NT		
⍰ Pinene	NT		
3 Carene	NT		
Borneol	NT		
⍰ Caryophyllene	NT		
Geraniol	NT		
⍰ Humulene	NT		
Terpinolene	NT		
Valencene	NT		
Menthol	NT		
Nerolidol	NT		
Camphene	NT		
Eucalyptol	NT		
⍰ Cedrene	NT		
Camphor	NT		
(-)-Isopulegol	NT		
Sabinene	NT		
⍰ Terpinene	NT		
⍰ Terpinene	NT		
Linalool	NT		
Limonene	NT		
Myrcene	NT		
Fenchol	NT		
⍰ Phellandrene	NT		
Caryophyllene Oxide	NT		
Terpineol	NT		
⍰ Pinene	NT		
R-(+)-Pulegone	NT		
Geranyl Acetate	NT		
Citronellol	NT		
p-Cymene	NT		
Ocimene	NT		
Guaiol	NT		
Phytol	NT		
Isoborneol	NT		
Total Terpene Concentration:	NT		

Batch Photo

Sample Certification

California Code of Regulations Title 16 Effect Date January 16, 2019
Authority: Section 26013, Business and Professions Code.
Reference: Sections 26100, 26104 and 26110, Business and Professions Code.

Scan to verify at sclabs.com
Sample must be marked as public to be viewable

Josh Wurzer, President
Date: 12/21/2019

SC Laboratories, LLC
100 Pioneer Street, Suite E
Santa Cruz, CA 95060
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Sample Name:	Hemp Pain Cream
LIMS Sample ID:	191220R001
Batch #:	
Source Metrc ID(s):	
Sample Type:	Infused, Topical
Batch Count:	
Sample Count:	
Unit Mass:	100 Grams per Unit
Serving Mass:	
Density:	

Date Collected:	12/20/2019
Date Received:	12/20/2019
Tested for:	LCF Labs
License #:	
Address:	
Produced by:	
License #:	
Address:	

Pesticide Test Results

Pesticide, Fungicide and plant growth regulator analysis utilizing HPLC-Mass Spectrometry and GC-Mass Spectrometry

	Results (µg/g)	Action Limit µg/g	LOD / LOQ µg/g
Abamectin	NT		
Acephate	NT		
Acequinocyl	NT		
Acetamiprid	NT		
Azoxystrobin	NT		
Bifenazate	NT		
Bifenthrin	NT		
Boscalid	NT		
Captan	NT		
Carbaryl	NT		
Chlorantraniliprole	NT		
Clofentezine	NT		
Cyfluthrin	NT		
Cypermethrin	NT		
Diazinon	NT		
Dimethomorph	NT		
Etoxazole	NT		
Fenhexamid	NT		
Fenpyroximate	NT		
Flonicamid	NT		
Fludioxonil	NT		
Hexythiazox	NT		
Imidacloprid	NT		
Kresoxim-methyl	NT		
Malathion	NT		
Metalaxyl	NT		
Methomyl	NT		
Myclobutanil	NT		
Naled	NT		
Oxamyl	NT		
Pentachloronitrobenzene	NT		
Permethrin	NT		
Phosmet	NT		
Piperonylbutoxide	NT		
Prallethrin	NT		
Propiconazole	NT		
Pyrethrins	NT		
Pyridaben	NT		
Spinetoram	NT		
Spinosad	NT		
Spiromesifen	NT		
Spirotetramat	NT		
Tebuconazole	NT		
Thiamethoxam	NT		
Trifloxystrobin	NT		

Pesticide Test Results

Pesticide, Fungicide and plant growth regulator analysis utilizing HPLC-Mass Spectrometry and GC-Mass Spectrometry

	Results (µg/g)	Action Limit µg/g	LOD / LOQ µg/g
Aldicarb	NT		
Carbofuran	NT		
Chlordane	NT		
Chlorfenapyr	NT		
Chlorpyrifos	NT		
Coumaphos	NT		
Daminozide	NT		
DDVP (Dichlorvos)	NT		
Dimethoate	NT		
Ethoprop(hos)	NT		
Etofenprox	NT		
Fenoxycarb	NT		
Fipronil	NT		
Imazalil	NT		
Methiocarb	NT		
Methyl parathion	NT		
Mevinphos	NT		
Paclobutrazol	NT		
Propoxur	NT		
Spiroxamine	NT		
Thiacloprid	NT		

Mycotoxin Test Results

Mycotoxin analysis utilizing HPLC-Mass Spectrometry

	Results (µg/kg)	Action Limit µg/kg	LOD / LOQ µg/kg
Aflatoxin B1, B2, G1, G2	NT		
Ochratoxin A	NT		

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Josh Wurzer, President
Date: 12/21/2019

HEMP LABORATORY TEST
CERTIFICATE OF ANALYSIS

SC Laboratories, LLC
100 Pioneer Street, Suite E
Santa Cruz, CA 95060
(866) 435-0709 | sclabs.com

Sample Name:	Hemp Pain Cream
LIMS Sample ID:	191220R001
Batch #:	
Source Metrc ID(s):	
Sample Type:	Infused, Topical
Batch Count:	
Sample Count:	
Unit Mass:	100 Grams per Unit
Serving Mass:	
Density:	

Date Collected:	12/20/2019
Date Received:	12/20/2019
Tested for:	LCF Labs
License #:	
Address:	
Produced by:	
License #:	
Address:	

Residual Solvent Test Results

Residual Solvent analysis utilizing Gas Chromatography - Mass Spectrometry (GC - MS)

	Results (µg/g)	Action Limit µg/g	LOD / LOQ µg/g
1,2-Dichloroethane	NT		
Benzene	NT		
Chloroform	NT		
Ethylene Oxide	NT		
Methylene chloride	NT		
Trichloroethylene	NT		
Acetone	NT		
Acetonitrile	NT		
Butane	NT		
Ethanol	NT		
Ethyl acetate	NT		
Ethyl ether	NT		
Heptane	NT		
Hexane	NT		
Isopropyl Alcohol	NT		
Methanol	NT		
Pentane	NT		
Propane	NT		
Toluene	NT		
Total Xylenes	NT		

Microbiological Test Results

PCR and fluorescence detection of microbiological impurities

	Results	Action Limit
Shiga toxin-producing Escherichia coli	NT	
Salmonella spp.	NT	
Aspergillus fumigatus	NT	
Aspergillus flavus	NT	
Aspergillus niger	NT	
Aspergillus terreus	NT	

3M Petrifilm and plate counts for microbiological contamination

	Results (cfu/g)
Aerobic Plate Count	NT
Total Yeast and Mold	NT

Foreign Material Test Results

NT

Water Activity Test Results

	Results (Aw)	Action Limit Aw
Water Activity	NT	

Heavy Metal Test Results

Heavy metal analysis utilizing Inductively Coupled Plasma Mass Spectrometry (ICP-MS)

	Results (µg/g)	Action Limit µg/g	LOD / LOQ µg/g
Cadmium	NT		
Lead	NT		
Arsenic	NT		
Mercury	NT		

Note

Sample Certification

California Code of Regulations Title 16 Effect Date January 16, 2019
Authority: Section 26013, Business and Professions Code.
Reference: Sections 26100, 26104 and 26110, Business and Professions Code.

Scan to verify at sclabs.com
Sample must be marked as public to be viewable

Josh Wurzer, President
Date: 12/21/2019

BULKNATURALOILS.COM
JEDWARDS INTERNATIONAL, INC.

HEMP SEED OIL - VIRGIN Ⓤ

CERTIFICATE OF ANALYSIS
LOT: 62-QVLYPIC-02

Date of Production: August, 2019
Expiration Date: August, 2022

Allergens: Contains seeds (hemp)

Parameter	Units	Limits		Results
		Min	Max	
Free Fatty Acids	%			0.4
Peroxide Value	meq/kg		10	3.2
Fatty Acid Profile (Area %)				
C16:0 Palmitic		4		4.8
C18:0 Stearic		1		1.6
C18:1 Oleic		5		9.6
C18:2 Linoleic		44		59.7
C18:3 Alpha Linolenic		14		18.2

Shelf life is guaranteed for three years from the date of production if the product is stored in the unopened original container between 15°C - 30°C, protected from light. Because this material is sensitive to oxidation, it is saturated with nitrogen and sealed with nitrogen atmosphere for protection. If containers are opened for sampling, be sure to refill atmosphere with nitrogen. Containers that have been opened should be tested at least yearly to ensure potency. Although Jedwards International, Inc. believes the above information to be accurate based on the information available to Jedwards, it is the responsibility of the customer and user of the material to perform its own investigation and due diligence prior to use to verify that the product purchased from Jedwards meets their quality requirements and is appropriate for the use to which the product is to be put. The information provided above shall be considered effective only for the lot with which the information is being provided. Use and purchase of this material is subject to Jedwards International, Inc. standard terms and conditions, which supersede any conflicting terms contained on Buyer's purchase order or any document or instrument supplied by Buyer.

BULKNATURALOILS.COM
JEDWARDS INTERNATIONAL, INC.

HEMP SEED OIL - VIRGIN Ⓤ

CERTIFICATE OF ANALYSIS
LOT: 62-QVLYPIC-02

Date of Production: August, 2019
Expiration Date: August, 2022

Allergens: Contains seeds (hemp)

Parameter	Units	Limits		Results
		Min	Max	
Free Fatty Acids	%			0.4
Peroxide Value	meq/kg		10	3.2
Fatty Acid Profile (Area %)				
C16:0 Palmitic		4		4.8
C18:0 Stearic		1		1.6
C18:1 Oleic		5		9.6
C18:2 Linoleic		44		59.7
C18:3 Alpha Linolenic		14		18.2

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HEMP LABORATORY TEST

CERTIFICATE OF ANALYSIS

Hemp Analysis - Summary

Tested by high-performance liquid chromatography with ultraviolet detection (HPLC-UV).

Scan to verify at sclabs.com

TOTAL THC[1]

0.0023%[2]

CANNABINOID PROFILE

5.0679% Total CBD[1]
5.0702% Total Cannabinoids[3]
Terpenes Not Tested

1) Total THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step: Total THC = Δ9THC + (THCa (0.877)) and Total CBD = CBD + (CBDa (0.877)).
2) As defined by the 2018 Farm Bill, hemp must contain no more than 0.3% Total THC, defined as the concentration of delta-9 tetrahydrocannabinol (Δ-9-THC) post-decarboxylation - see formula above.
3) Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

Additional Testing

Pass/Fail defined at action limits set by California Code of Regulations Title 16. Effective date: January 16, 2019. Authority: Section 26013, Business Professions Code. Reference: Sections 26100, 26104, and 26110, Business Professions Code.

Jewel Mango 50mg CBD

Tested for: Alo Group

Address:

Batch #:

Sample ID: 200122S003
Date Collected: 01/22/2020
Date Received: 01/22/2020

Final Approval

Josh Wurzer, President
Date: 01/25/2020

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HEMP LABORATORY TEST
CERTIFICATE OF ANALYSIS

SC Laboratories, LLC
100 Pioneer Street, Suite E
Santa Cruz, CA 95060
(866) 435-0709 | sclabs.com

Sample Name:	Jewel Mango 50mg CBD
LIMS Sample ID:	200122S003
Batch #:	
Source METRC UID:	
Sample Type:	E-Juice, Product Inhalable
Batch Count:	
Sample Count:	
Unit Mass:	1.2 Grams per Unit
Serving Mass:	
Density:	1.0966 g/mL

Date Collected:	01/22/2020
Date Received:	01/22/2020
Tested for:	Alo Group
License #:	
Address:	
Produced by:	
License #:	
Address:	

Moisture Test Results

	Results (%)
Moisture	NT

Cannabinoid Test Results 01/25/2020

Cannabinoid analysis utilizing High Performance Liquid Chromatography (HPLC, QSP 5-4-4-4)

	mg/g	%	LOD / LOQ mg/g
Δ9THC	0.023	0.0023	0.0009 / 0.003
Δ8THC	ND	ND	0.0009 / 0.003
THCa	ND	ND	0.0009 / 0.003
THCV	ND	ND	0.0004 / 0.001
THCVa	ND	ND	0.0013 / 0.004
CBD	50.679	5.0679	0.0009 / 0.003
CBDa	ND	ND	0.0009 / 0.003
CBDV	ND	ND	0.0004 / 0.001
CBDVa	ND	ND	0.0003 / 0.001
CBG	<LOQ	<LOQ	0.001 / 0.003
CBGa	ND	ND	0.0008 / 0.002
CBL	ND	ND	0.0021 / 0.006
CBN	ND	ND	0.0009 / 0.003
CBC	ND	ND	0.0011 / 0.003
CBCa	ND	ND	0.0015 / 0.005
Sum of Cannabinoids:	**50.702**	**5.0702**	**60.842 mg/Unit**
Total THC (Δ9THC+0.877*THCa)	0.023	0.0023	0.028 mg/Unit
Total CBD (CBD+0.877*CBDa)	50.679	5.0679	60.815 mg/Unit

	Action Limit mg		
Δ9THC per Unit	1000.0	Pass	0.028 mg/Unit
Δ9THC per Serving			

Batch Photo

Terpene Test Results

Terpene analysis utilizing Gas Chromatography - Flame Ionization Detection (GC - FID)

	mg/g	%	LOD / LOQ mg/g
⍰ Bisabolol	NT		
⍰ Pinene	NT		
3 Carene	NT		
Borneol	NT		
⍰ Caryophyllene	NT		
Geraniol	NT		
⍰ Humulene	NT		
Terpinolene	NT		
Valencene	NT		
Menthol	NT		
Nerolidol	NT		
Camphene	NT		
Eucalyptol	NT		
⍰ Cedrene	NT		
Camphor	NT		
(-)-Isopulegol	NT		
Sabinene	NT		
⍰ Terpinene	NT		
⍰ Terpinene	NT		
Linalool	NT		
Limonene	NT		
Myrcene	NT		
Fenchol	NT		
⍰ Phellandrene	NT		
Caryophyllene Oxide	NT		
Terpineol	NT		
⍰ Pinene	NT		
R-(+)-Pulegone	NT		
Geranyl Acetate	NT		
Citronellol	NT		
p-Cymene	NT		
Ocimene	NT		
Guaiol	NT		
Phytol	NT		
Isoborneol	NT		
Total Terpene Concentration:	NT		

Sample Certification

California Code of Regulations Title 16 Effect Date January 16, 2019
Authority: Section 26013, Business and Professions Code.
Reference: Sections 26100, 26104 and 26110, Business and Professions Code.

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Josh Wurzer, President
Date: 01/25/2020

HEMP LABORATORY TEST

CERTIFICATE OF ANALYSIS

SC Laboratories, LLC
100 Pioneer Street, Suite E
Santa Cruz, CA 95060
(866) 435-0709 | sclabs.com

Sample Name:	Jewel Mango 50mg CBD
LIMS Sample ID:	200122S003
Batch #:	
Source METRC UID:	
Sample Type:	E-Juice, Product Inhalable
Batch Count:	
Sample Count:	
Unit Mass:	1.2 Grams per Unit
Serving Mass:	
Density:	1.0966 g/mL

Date Collected:	01/22/2020
Date Received:	01/22/2020
Tested for:	Alo Group
License #:	
Address:	
Produced by:	
License #:	
Address:	

Pesticide Test Results

Pesticide, Fungicide and plant growth regulator analysis utilizing HPLC-Mass Spectrometry and GC-Mass Spectrometry

	Results (µg/g)	Action Limit µg/g	LOD / LOQ µg/g
Abamectin	NT		
Acephate	NT		
Acequinocyl	NT		
Acetamiprid	NT		
Azoxystrobin	NT		
Bifenazate	NT		
Bifenthrin	NT		
Boscalid	NT		
Captan	NT		
Carbaryl	NT		
Chlorantraniliprole	NT		
Clofentezine	NT		
Cyfluthrin	NT		
Cypermethrin	NT		
Diazinon	NT		
Dimethomorph	NT		
Etoxazole	NT		
Fenhexamid	NT		
Fenpyroximate	NT		
Flonicamid	NT		
Fludioxonil	NT		
Hexythiazox	NT		
Imidacloprid	NT		
Kresoxim-methyl	NT		
Malathion	NT		
Metalaxyl	NT		
Methomyl	NT		
Myclobutanil	NT		
Naled	NT		
Oxamyl	NT		
Pentachloronitrobenzene	NT		
Permethrin	NT		
Phosmet	NT		
Piperonylbutoxide	NT		
Prallethrin	NT		
Propiconazole	NT		
Pyrethrins	NT		
Pyridaben	NT		
Spinetoram	NT		
Spinosad	NT		
Spiromesifen	NT		
Spirotetramat	NT		
Tebuconazole	NT		
Thiamethoxam	NT		
Trifloxystrobin	NT		

Pesticide Test Results

Pesticide, Fungicide and plant growth regulator analysis utilizing HPLC-Mass Spectrometry and GC-Mass Spectrometry

	Results (µg/g)	Action Limit µg/g	LOD / LOQ µg/g
Aldicarb	NT		
Carbofuran	NT		
Chlordane	NT		
Chlorfenapyr	NT		
Chlorpyrifos	NT		
Coumaphos	NT		
Daminozide	NT		
DDVP (Dichlorvos)	NT		
Dimethoate	NT		
Ethoprop(hos)	NT		
Etofenprox	NT		
Fenoxycarb	NT		
Fipronil	NT		
Imazalil	NT		
Methiocarb	NT		
Methyl parathion	NT		
Mevinphos	NT		
Paclobutrazol	NT		
Propoxur	NT		
Spiroxamine	NT		
Thiacloprid	NT		

Mycotoxin Test Results

Mycotoxin analysis utilizing HPLC-Mass Spectrometry

	Results (µg/kg)	Action Limit µg/kg	LOD / LOQ µg/kg
Aflatoxin B1, B2, G1, G2	NT		
Ochratoxin A	NT		

Sample Certification

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Josh Wurzer, President
Date: 01/25/2020

HEMP LABORATORY TEST
CERTIFICATE OF ANALYSIS

SC Laboratories, LLC
100 Pioneer Street, Suite E
Santa Cruz, CA 95060
(866) 435-0709 | sclabs.com

Sample Name:	Jewel Mango 50mg CBD
LIMS Sample ID:	200122S003
Batch #:	
Source METRC UID:	
Sample Type:	E-Juice, Product Inhalable
Batch Count:	
Sample Count:	
Unit Mass:	1.2 Grams per Unit
Serving Mass:	
Density:	1.0966 g/mL

Date Collected:	01/22/2020
Date Received:	01/22/2020
Tested for:	Alo Group
License #:	
Address:	
Produced by:	
License #:	
Address:	

Residual Solvent Test Results

Residual Solvent analysis utilizing Gas Chromatography - Mass Spectrometry (GC - MS)

	Results (µg/g)	Action Limit µg/g	LOD / LOQ µg/g
1,2-Dichloroethane	NT		
Benzene	NT		
Chloroform	NT		
Ethylene Oxide	NT		
Methylene chloride	NT		
Trichloroethylene	NT		
Acetone	NT		
Acetonitrile	NT		
Butane	NT		
Ethanol	NT		
Ethyl acetate	NT		
Ethyl ether	NT		
Heptane	NT		
Hexane	NT		
Isopropyl Alcohol	NT		
Methanol	NT		
Pentane	NT		
Propane	NT		
Toluene	NT		
Total Xylenes	NT		

Microbiological Test Results

PCR and fluorescence detection of microbiological impurities

	Results	Action Limit
Shiga toxin-producing Escherichia coli	NT	
Salmonella spp.	NT	
Aspergillus fumigatus	NT	
Aspergillus flavus	NT	
Aspergillus niger	NT	
Aspergillus terreus	NT	

3M Petrifilm and plate counts for microbiological contamination

	Results (cfu/g)
Aerobic Plate Count	NT
Total Yeast and Mold	NT

Foreign Material Test Results

NT

Water Activity Test Results

	Results (Aw)	Action Limit Aw
Water Activity	NT	

Heavy Metal Test Results

Heavy metal analysis utilizing Inductively Coupled Plasma Mass Spectrometry (ICP-MS)

	Results (µg/g)	Action Limit µg/g	LOD / LOQ µg/g
Cadmium	NT		
Lead	NT		
Arsenic	NT		
Mercury	NT		

Note

Sample Certification

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Reference: Sections 26100, 26104 and 26110, Business and Professions Code.

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Josh Wurzer, President
Date: 01/25/2020

HEMP LABORATORY TEST

CERTIFICATE OF ANALYSIS

Hemp Analysis - Summary

Tested by high-performance liquid chromatography with ultraviolet detection (HPLC-UV).

Scan to verify at sclabs.com

TOTAL THC[1]

0.0027%[2]

CANNABINOID PROFILE

5.3416% Total CBD[1]

5.3629% Total Cannabinoids[3]

Terpenes Not Tested

1) Total THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step: Total THC = Δ9THC + (THCa (0.877)) and Total CBD = CBD + (CBDa (0.877)).
2) As defined by the 2018 Farm Bill, hemp must contain no more than 0.3% Total THC, defined as the concentration of delta-9 tetrahydrocannabinol (Δ-9-THC) post-decarboxylation - see formula above.
3) Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

Additional Testing

Pass/Fail defined at action limits set by California Code of Regulations Title 16. Effective date: January 16, 2019. Authority: Section 26013, Business Professions Code. Reference: Sections 26100, 26104, and 26110, Business Professions Code.

Jewel Mint 50mg CBD

Tested for: Alo Group

Address:

Batch #:

Sample ID: 200122S002

Date Collected: 01/22/2020

Date Received: 01/22/2020

Final Approval

Josh Wurzer, President
Date: 01/25/2020

These results relate only to the sample included on this report. This report shall not be reproduced except in full, without written approval of the laboratory. The uncertainty of measurement associated with the measurement result reported in this certificate is available from SC Laboratories upon request.

HEMP LABORATORY TEST
CERTIFICATE OF ANALYSIS

SC Laboratories, LLC
100 Pioneer Street, Suite E
Santa Cruz, CA 95060
(866) 435-0709 | sclabs.com

Sample Name:	Jewel Mint 50mg CBD
LIMS Sample ID:	200122S002
Batch #:	
Source METRC UID:	
Sample Type:	E-Juice, Product Inhalable
Batch Count:	
Sample Count:	
Unit Mass:	1.2 Grams per Unit
Serving Mass:	
Density:	1.0848 g/mL

Date Collected:	01/22/2020
Date Received:	01/22/2020
Tested for:	Alo Group
License #:	
Address:	
Produced by:	
License #:	
Address:	

Moisture Test Results

	Results (%)
Moisture	NT

Cannabinoid Test Results 01/25/2020

Cannabinoid analysis utilizing High Performance Liquid Chromatography (HPLC, QSP 5-4-4-4)

	mg/g	%	LOD / LOQ mg/g
Δ9THC	0.027	0.0027	0.0009 / 0.003
Δ8THC	ND	ND	0.0009 / 0.003
THCa	ND	ND	0.0009 / 0.003
THCV	ND	ND	0.0004 / 0.001
THCVa	ND	ND	0.0013 / 0.004
CBD	53.416	5.3416	0.0009 / 0.003
CBDa	ND	ND	0.0009 / 0.003
CBDV	0.186	0.0186	0.0004 / 0.001
CBDVa	ND	ND	0.0003 / 0.001
CBG	<LOQ	<LOQ	0.001 / 0.003
CBGa	ND	ND	0.0008 / 0.002
CBL	ND	ND	0.0021 / 0.006
CBN	ND	ND	0.0009 / 0.003
CBC	ND	ND	0.0011 / 0.003
CBCa	ND	ND	0.0015 / 0.005
Sum of Cannabinoids:	**53.629**	**5.3629**	**64.355 mg/Unit**
Total THC (Δ9THC+0.877*THCa)	0.027	0.0027	0.032 mg/Unit
Total CBD (CBD+0.877*CBDa)	53.416	5.3416	64.099 mg/Unit

	Action Limit mg		
Δ9THC per Unit	1000.0	Pass	0.032 mg/Unit
Δ9THC per Serving			

Batch Photo

Terpene Test Results

Terpene analysis utilizing Gas Chromatography - Flame Ionization Detection (GC - FID)

	mg/g	%	LOD / LOQ mg/g
⍰ Bisabolol	NT		
⍰ Pinene	NT		
3 Carene	NT		
Borneol	NT		
⍰ Caryophyllene	NT		
Geraniol	NT		
⍰ Humulene	NT		
Terpinolene	NT		
Valencene	NT		
Menthol	NT		
Nerolidol	NT		
Camphene	NT		
Eucalyptol	NT		
⍰ Cedrene	NT		
Camphor	NT		
(-)-Isopulegol	NT		
Sabinene	NT		
⍰ Terpinene	NT		
⍰ Terpinene	NT		
Linalool	NT		
Limonene	NT		
Myrcene	NT		
Fenchol	NT		
⍰ Phellandrene	NT		
Caryophyllene Oxide	NT		
Terpineol	NT		
⍰ Pinene	NT		
R-(+)-Pulegone	NT		
Geranyl Acetate	NT		
Citronellol	NT		
p-Cymene	NT		
Ocimene	NT		
Guaiol	NT		
Phytol	NT		
Isoborneol	NT		
Total Terpene Concentration:	NT		

Sample Certification

California Code of Regulations Title 16 Effect Date January 16, 2019
Authority: Section 26013, Business and Professions Code.
Reference: Sections 26100, 26104 and 26110, Business and Professions Code.

Scan to verify at sclabs.com
Sample must be marked as public to be viewable

Josh Wurzer, President
Date: 01/25/2020

HEMP LABORATORY TEST

CERTIFICATE OF ANALYSIS

SC Laboratories, LLC
100 Pioneer Street, Suite E
Santa Cruz, CA 95060
(866) 435-0709 | sclabs.com

Sample Name:	Jewel Mint 50mg CBD
LIMS Sample ID:	200122S002
Batch #:	
Source METRC UID:	
Sample Type:	E-Juice, Product Inhalable
Batch Count:	
Sample Count:	
Unit Mass:	1.2 Grams per Unit
Serving Mass:	
Density:	1.0848 g/mL

Date Collected:	01/22/2020
Date Received:	01/22/2020
Tested for:	Alo Group
License #:	
Address:	
Produced by:	
License #:	
Address:	

Pesticide Test Results

Pesticide, Fungicide and plant growth regulator analysis utilizing HPLC-Mass Spectrometry and GC-Mass Spectrometry

	Results (µg/g)	Action Limit µg/g	LOD / LOQ µg/g
Abamectin	NT		
Acephate	NT		
Acequinocyl	NT		
Acetamiprid	NT		
Azoxystrobin	NT		
Bifenazate	NT		
Bifenthrin	NT		
Boscalid	NT		
Captan	NT		
Carbaryl	NT		
Chlorantraniliprole	NT		
Clofentezine	NT		
Cyfluthrin	NT		
Cypermethrin	NT		
Diazinon	NT		
Dimethomorph	NT		
Etoxazole	NT		
Fenhexamid	NT		
Fenpyroximate	NT		
Flonicamid	NT		
Fludioxonil	NT		
Hexythiazox	NT		
Imidacloprid	NT		
Kresoxim-methyl	NT		
Malathion	NT		
Metalaxyl	NT		
Methomyl	NT		
Myclobutanil	NT		
Naled	NT		
Oxamyl	NT		
Pentachloronitrobenzene	NT		
Permethrin	NT		
Phosmet	NT		
Piperonylbutoxide	NT		
Prallethrin	NT		
Propiconazole	NT		
Pyrethrins	NT		
Pyridaben	NT		
Spinetoram	NT		
Spinosad	NT		
Spiromesifen	NT		
Spirotetramat	NT		
Tebuconazole	NT		
Thiamethoxam	NT		
Trifloxystrobin	NT		

Pesticide Test Results

Pesticide, Fungicide and plant growth regulator analysis utilizing HPLC-Mass Spectrometry and GC-Mass Spectrometry

	Results (µg/g)	Action Limit µg/g	LOD / LOQ µg/g
Aldicarb	NT		
Carbofuran	NT		
Chlordane	NT		
Chlorfenapyr	NT		
Chlorpyrifos	NT		
Coumaphos	NT		
Daminozide	NT		
DDVP (Dichlorvos)	NT		
Dimethoate	NT		
Ethoprop(hos)	NT		
Etofenprox	NT		
Fenoxycarb	NT		
Fipronil	NT		
Imazalil	NT		
Methiocarb	NT		
Methyl parathion	NT		
Mevinphos	NT		
Paclobutrazol	NT		
Propoxur	NT		
Spiroxamine	NT		
Thiacloprid	NT		

Mycotoxin Test Results

Mycotoxin analysis utilizing HPLC-Mass Spectrometry

	Results (µg/kg)	Action Limit µg/kg	LOD / LOQ µg/kg
Aflatoxin B1, B2, G1, G2	NT		
Ochratoxin A	NT		

Sample Certification

California Code of Regulations Title 16 Effect Date January 16, 2019
Authority: Section 26013, Business and Professions Code.
Reference: Sections 26100, 26104 and 26110, Business and Professions Code.

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Josh Wurzer, President
Date: 01/25/2020

HEMP LABORATORY TEST
CERTIFICATE OF ANALYSIS

SC Laboratories, LLC
100 Pioneer Street, Suite E
Santa Cruz, CA 95060
(866) 435-0709 | sclabs.com

Sample Name:	Jewel Mint 50mg CBD
LIMS Sample ID:	200122S002
Batch #:	
Source METRC UID:	
Sample Type:	E-Juice, Product Inhalable
Batch Count:	
Sample Count:	
Unit Mass:	1.2 Grams per Unit
Serving Mass:	
Density:	1.0848 g/mL

Date Collected:	01/22/2020
Date Received:	01/22/2020
Tested for:	Alo Group
License #:	
Address:	
Produced by:	
License #:	
Address:	

Residual Solvent Test Results

Residual Solvent analysis utilizing Gas Chromatography - Mass Spectrometry (GC - MS)

	Results (µg/g)	Action Limit µg/g	LOD / LOQ µg/g
1,2-Dichloroethane	NT		
Benzene	NT		
Chloroform	NT		
Ethylene Oxide	NT		
Methylene chloride	NT		
Trichloroethylene	NT		
Acetone	NT		
Acetonitrile	NT		
Butane	NT		
Ethanol	NT		
Ethyl acetate	NT		
Ethyl ether	NT		
Heptane	NT		
Hexane	NT		
Isopropyl Alcohol	NT		
Methanol	NT		
Pentane	NT		
Propane	NT		
Toluene	NT		
Total Xylenes	NT		

Microbiological Test Results

PCR and fluorescence detection of microbiological impurities

	Results	Action Limit
Shiga toxin-producing Escherichia coli	NT	
Salmonella spp.	NT	
Aspergillus fumigatus	NT	
Aspergillus flavus	NT	
Aspergillus niger	NT	
Aspergillus terreus	NT	

3M Petrifilm and plate counts for microbiological contamination

	Results (cfu/g)
Aerobic Plate Count	NT
Total Yeast and Mold	NT

Foreign Material Test Results

NT

Water Activity Test Results

	Results (Aw)	Action Limit Aw
Water Activity	NT	

Heavy Metal Test Results

Heavy metal analysis utilizing Inductively Coupled Plasma Mass Spectrometry (ICP-MS)

	Results (µg/g)	Action Limit µg/g	LOD / LOQ µg/g
Cadmium	NT		
Lead	NT		
Arsenic	NT		
Mercury	NT		

Note

Sample Certification

California Code of Regulations Title 16 Effect Date January 16, 2019
Authority: Section 26013, Business and Professions Code.
Reference: Sections 26100, 26104 and 26110, Business and Professions Code.

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Josh Wurzer, President
Date: 01/25/2020

HEMP LABORATORY TEST

CERTIFICATE OF ANALYSIS

Hemp Analysis - Summary

Tested by high-performance liquid chromatography with ultraviolet detection (HPLC-UV).

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TOTAL THC[1]

0.0023%[2]

CANNABINOID PROFILE

5.1386% Total CBD[1]

5.1589% Total Cannabinoids[3]

Terpenes Not Tested

1) Total THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step: Total THC = Δ9THC + (THCa (0.877)) and Total CBD = CBD + (CBDa (0.877)).
2) As defined by the 2018 Farm Bill, hemp must contain no more than 0.3% Total THC, defined as the concentration of delta-9 tetrahydrocannabinol (Δ-9-THC) post-decarboxylation - see formula above.
3) Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

Additional Testing

Pass/Fail defined at action limits set by California Code of Regulations Title 16. Effective date: January 16, 2019. Authority: Section 26013, Business Professions Code. Reference: Sections 26100, 26104, and 26110, Business Professions Code.

Strawberry Lemonade 50mg CBD

Tested for: Alo Group

Address:

Batch #:

Sample ID: 200122S004

Date Collected: 01/22/2020

Date Received: 01/22/2020

Final Approval

Josh Wurzer, President
Date: 01/25/2020

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HEMP LABORATORY TEST
CERTIFICATE OF ANALYSIS

SC Laboratories, LLC
100 Pioneer Street, Suite E
Santa Cruz, CA 95060
(866) 435-0709 | sclabs.com

Sample Name:	Strawberry Lemonade 50mg CBD
LIMS Sample ID:	200122S004
Batch #:	
Source METRC UID:	
Sample Type:	E-Juice, Product Inhalable
Batch Count:	
Sample Count:	
Unit Mass:	1.2 Grams per Unit
Serving Mass:	
Density:	1.0746 g/mL

Date Collected:	01/22/2020
Date Received:	01/22/2020
Tested for:	Alo Group
License #:	
Address:	
Produced by:	
License #:	
Address:	

Moisture Test Results

	Results (%)
Moisture	NT

Cannabinoid Test Results 01/25/2020

Cannabinoid analysis utilizing High Performance Liquid Chromatography (HPLC, QSP 5-4-4-4)

	mg/g	%	LOD / LOQ mg/g
Δ9THC	0.023	0.0023	0.0009 / 0.003
Δ8THC	ND	ND	0.0009 / 0.003
THCa	ND	ND	0.0009 / 0.003
THCV	ND	ND	0.0004 / 0.001
THCVa	ND	ND	0.0013 / 0.004
CBD	51.386	5.1386	0.0009 / 0.003
CBDa	ND	ND	0.0009 / 0.003
CBDV	0.180	0.0180	0.0004 / 0.001
CBDVa	ND	ND	0.0003 / 0.001
CBG	ND	ND	0.001 / 0.003
CBGa	ND	ND	0.0008 / 0.002
CBL	ND	ND	0.0021 / 0.006
CBN	ND	ND	0.0009 / 0.003
CBC	ND	ND	0.0011 / 0.003
CBCa	ND	ND	0.0015 / 0.005
Sum of Cannabinoids:	**51.589**	**5.1589**	**61.907 mg/Unit**
Total THC (Δ9THC+0.877*THCa)	0.023	0.0023	0.028 mg/Unit
Total CBD (CBD+0.877*CBDa)	51.386	5.1386	61.663 mg/Unit

	Action Limit mg		
Δ9THC per Unit	1000.0	Pass	0.028 mg/Unit
Δ9THC per Serving			

Batch Photo

Terpene Test Results

Terpene analysis utilizing Gas Chromatography - Flame Ionization Detection (GC - FID)

	mg/g	%	LOD / LOQ mg/g
⍰ Bisabolol	NT		
⍰ Pinene	NT		
3 Carene	NT		
Borneol	NT		
⍰ Caryophyllene	NT		
Geraniol	NT		
⍰ Humulene	NT		
Terpinolene	NT		
Valencene	NT		
Menthol	NT		
Nerolidol	NT		
Camphene	NT		
Eucalyptol	NT		
⍰ Cedrene	NT		
Camphor	NT		
(-)-Isopulegol	NT		
Sabinene	NT		
⍰ Terpinene	NT		
⍰ Terpinene	NT		
Linalool	NT		
Limonene	NT		
Myrcene	NT		
Fenchol	NT		
⍰ Phellandrene	NT		
Caryophyllene Oxide	NT		
Terpineol	NT		
⍰ Pinene	NT		
R-(+)-Pulegone	NT		
Geranyl Acetate	NT		
Citronellol	NT		
p-Cymene	NT		
Ocimene	NT		
Guaiol	NT		
Phytol	NT		
Isoborneol	NT		
Total Terpene Concentration:	NT		

Sample Certification

California Code of Regulations Title 16 Effect Date January 16, 2019
Authority: Section 26013, Business and Professions Code.
Reference: Sections 26100, 26104 and 26110, Business and Professions Code.

Scan to verify at sclabs.com
Sample must be marked as public to be viewable

Josh Wurzer, President
Date: 01/25/2020

SC Laboratories, LLC
100 Pioneer Street, Suite E
Santa Cruz, CA 95060
(866) 435-0709 | sclabs.com

Sample Name:	Strawberry Lemonade 50mg CBD
LIMS Sample ID:	200122S004
Batch #:	
Source METRC UID:	
Sample Type:	E-Juice, Product Inhalable
Batch Count:	
Sample Count:	
Unit Mass:	1.2 Grams per Unit
Serving Mass:	
Density:	1.0746 g/mL

Date Collected:	01/22/2020
Date Received:	01/22/2020
Tested for:	Alo Group
License #:	
Address:	
Produced by:	
License #:	
Address:	

Pesticide Test Results

Pesticide, Fungicide and plant growth regulator analysis utilizing HPLC-Mass Spectrometry and GC-Mass Spectrometry

	Results (µg/g)	Action Limit µg/g	LOD / LOQ µg/g
Abamectin	NT		
Acephate	NT		
Acequinocyl	NT		
Acetamiprid	NT		
Azoxystrobin	NT		
Bifenazate	NT		
Bifenthrin	NT		
Boscalid	NT		
Captan	NT		
Carbaryl	NT		
Chlorantraniliprole	NT		
Clofentezine	NT		
Cyfluthrin	NT		
Cypermethrin	NT		
Diazinon	NT		
Dimethomorph	NT		
Etoxazole	NT		
Fenhexamid	NT		
Fenpyroximate	NT		
Flonicamid	NT		
Fludioxonil	NT		
Hexythiazox	NT		
Imidacloprid	NT		
Kresoxim-methyl	NT		
Malathion	NT		
Metalaxyl	NT		
Methomyl	NT		
Myclobutanil	NT		
Naled	NT		
Oxamyl	NT		
Pentachloronitrobenzene	NT		
Permethrin	NT		
Phosmet	NT		
Piperonylbutoxide	NT		
Prallethrin	NT		
Propiconazole	NT		
Pyrethrins	NT		
Pyridaben	NT		
Spinetoram	NT		
Spinosad	NT		
Spiromesifen	NT		
Spirotetramat	NT		
Tebuconazole	NT		
Thiamethoxam	NT		
Trifloxystrobin	NT		

Pesticide Test Results

Pesticide, Fungicide and plant growth regulator analysis utilizing HPLC-Mass Spectrometry and GC-Mass Spectrometry

	Results (µg/g)	Action Limit µg/g	LOD / LOQ µg/g
Aldicarb	NT		
Carbofuran	NT		
Chlordane	NT		
Chlorfenapyr	NT		
Chlorpyrifos	NT		
Coumaphos	NT		
Daminozide	NT		
DDVP (Dichlorvos)	NT		
Dimethoate	NT		
Ethoprop(hos)	NT		
Etofenprox	NT		
Fenoxycarb	NT		
Fipronil	NT		
Imazalil	NT		
Methiocarb	NT		
Methyl parathion	NT		
Mevinphos	NT		
Paclobutrazol	NT		
Propoxur	NT		
Spiroxamine	NT		
Thiacloprid	NT		

Mycotoxin Test Results

Mycotoxin analysis utilizing HPLC-Mass Spectrometry

	Results (µg/kg)	Action Limit µg/kg	LOD / LOQ µg/kg
Aflatoxin B1, B2, G1, G2	NT		
Ochratoxin A	NT		

Sample Certification

California Code of Regulations Title 16 Effect Date January 16, 2019
Authority: Section 26013, Business and Professions Code.
Reference: Sections 26100, 26104 and 26110, Business and Professions Code.

Scan to verify at sclabs.com
Sample must be marked as public to be viewable

Josh Wurzer, President
Date: 01/25/2020

HEMP LABORATORY TEST
CERTIFICATE OF ANALYSIS

SC Laboratories, LLC
100 Pioneer Street, Suite E
Santa Cruz, CA 95060
(866) 435-0709 | sclabs.com

Sample Name:	Strawberry Lemonade 50mg CBD
LIMS Sample ID:	200122S004
Batch #:	
Source METRC UID:	
Sample Type:	E-Juice, Product Inhalable
Batch Count:	
Sample Count:	
Unit Mass:	1.2 Grams per Unit
Serving Mass:	
Density:	1.0746 g/mL

Date Collected:	01/22/2020
Date Received:	01/22/2020
Tested for:	Alo Group
License #:	
Address:	
Produced by:	
License #:	
Address:	

Residual Solvent Test Results

Residual Solvent analysis utilizing Gas Chromatography - Mass Spectrometry (GC - MS)

	Results (µg/g)	Action Limit µg/g	LOD / LOQ µg/g
1,2-Dichloroethane	NT		
Benzene	NT		
Chloroform	NT		
Ethylene Oxide	NT		
Methylene chloride	NT		
Trichloroethylene	NT		
Acetone	NT		
Acetonitrile	NT		
Butane	NT		
Ethanol	NT		
Ethyl acetate	NT		
Ethyl ether	NT		
Heptane	NT		
Hexane	NT		
Isopropyl Alcohol	NT		
Methanol	NT		
Pentane	NT		
Propane	NT		
Toluene	NT		
Total Xylenes	NT		

Microbiological Test Results

PCR and fluorescence detection of microbiological impurities

	Results	Action Limit
Shiga toxin-producing Escherichia coli	NT	
Salmonella spp.	NT	
Aspergillus fumigatus	NT	
Aspergillus flavus	NT	
Aspergillus niger	NT	
Aspergillus terreus	NT	

3M Petrifilm and plate counts for microbiological contamination

	Results (cfu/g)
Aerobic Plate Count	NT
Total Yeast and Mold	NT

Foreign Material Test Results

NT

Water Activity Test Results

	Results (Aw)	Action Limit Aw
Water Activity	NT	

Heavy Metal Test Results

Heavy metal analysis utilizing Inductively Coupled Plasma Mass Spectrometry (ICP-MS)

	Results (µg/g)	Action Limit µg/g	LOD / LOQ µg/g
Cadmium	NT		
Lead	NT		
Arsenic	NT		
Mercury	NT		

Note

Sample Certification

California Code of Regulations Title 16 Effect Date January 16, 2019
Authority: Section 26013, Business and Professions Code.
Reference: Sections 26100, 26104 and 26110, Business and Professions Code.

Scan to verify at sclabs.com
Sample must be marked as public to be viewable

Josh Wurzer, President
Date: 01/25/2020

BULKNATURALOILS.COM
JEDWARDS INTERNATIONAL, INC.

HEMP SEED OIL - VIRGIN Ⓤ

CERTIFICATE OF ANALYSIS
LOT: 62-QVLYPIC-02

Date of Production: August, 2019
Expiration Date: August, 2022

Allergens: Contains seeds (hemp)

Parameter	Units	Limits		Results
		Min	Max	
Free Fatty Acids	%			0.4
Peroxide Value	meq/kg		10	3.2
Fatty Acid Profile (Area %)				
C16:0 Palmitic		4		4.8
C18:0 Stearic		1		1.6
C18:1 Oleic		5		9.6
C18:2 Linoleic		44		59.7
C18:3 Alpha Linolenic		14		18.2

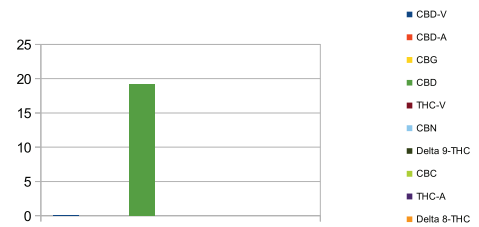
Shelf life is guaranteed for three years from the date of production if the product is stored in the unopened original container between 15°C - 30°C, protected from light. Because this material is sensitive to oxidation, it is saturated with nitrogen and sealed with nitrogen atmosphere for protection. If containers are opened for sampling, be sure to refill atmosphere with nitrogen. Containers that have been opened should be tested at least yearly to ensure potency. Although Jedwards International, Inc. believes the above information to be accurate based on the information available to Jedwards, it is the responsibility of the customer and user of the material to perform its own investigation and due diligence prior to use to verify that the product purchased from Jedwards meets their quality requirements and is appropriate for the use to which the product is to be put. The information provided above shall be considered effective only for the lot with which the information is being provided. Use and purchase of this material is subject to Jedwards International, Inc. standard terms and conditions, which supersede any conflicting terms contained on Buyer's purchase order or any document or instrument supplied by Buyer.

DESERT VALLEY TESTING
51 W. Weldon Ave
Phoenix, Arizona 85013
480-788-6644
www.desertvalleytesting.com

Sample Information	
Sample Identification	Lemon Tart
Laboratory Number	2019016739
Batch Number	NA
Matrix	Vape Oil
Analyzed Date	08/09/19
Extraction Date	08/09/19

Cannabinoid (HPLC)	mg/mL	mg/Bottle	%
Compound			
CBD-V	0.06	0.61	0.00%
CBD-A	ND	ND	ND
CBG	ND	ND	ND
CBD	26.37	263.79	2.10%
THC-V	ND	ND	ND
CBN	ND	ND	ND
Delta 9-THC	ND	ND	ND
CBC	ND	ND	ND
THC-A	ND	ND	ND
Delta 8-THC	ND	ND	ND
Cannabinoids Total			
Max Active THC	**ND**	**ND**	**ND**
Max Active CBD	**26.37**	**263.79**	**2.10%**
T. Active Cannabinoids	26.43	264.40	2.10%
Total Cannabinoids	26.43	264.40	2.10%

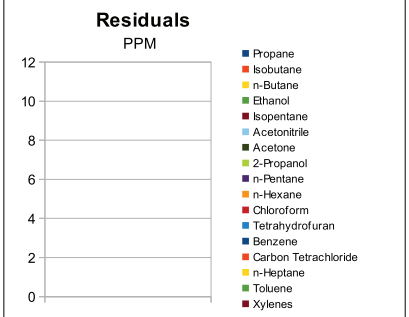
Max Active Ratios
ND :1 CBD to THC
ND :1 THC to CBD



Sample Image

Micro Visual: NT
Percent Moisture
NT

RS (GCMS-HS)	PPM	RL
Compound		
Propane	NT	5.0
Isobutane	NT	5.0
n-Butane	NT	5.0
Ethanol	NT	5.0
Isopentane	NT	5.0
Acetonitrile	NT	5.0
Acetone	NT	50.0
2-Propanol	NT	5.0
n-Pentane	NT	5.0
n-Hexane	NT	5.0
Chloroform	NT	5.0
Tetrahydrofuran	NT	5.0
Benzene	NT	5.0
Carbon Tetrachloride	NT	5.0
n-Heptane	NT	5.0
Toluene	NT	5.0
Xylenes	NT	10.0

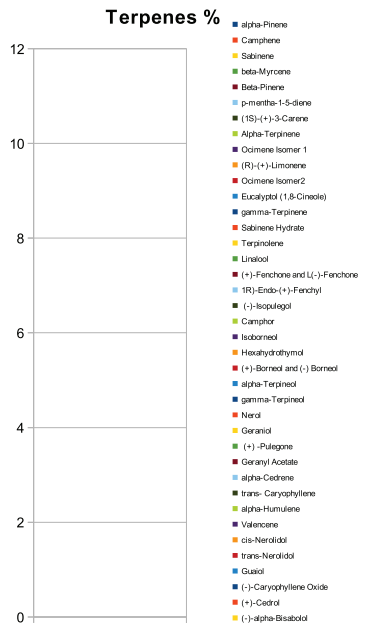


mL/Bottle
10
mg THC/Bottle
ND
mg CBD/Bottle
263.79
(mg) total cannabinoids/bottle
264.40

Metals	PPM	RL
Compound		
Lead	NT	0.018
Arsenic	NT	0.007
Cadmium	NT	0.004
Mercury	NT	0.020

Microbial	CFU/g
Compound	
Enterobacteriaceae	NT
Coliform	NT
Ecoli	NT
Aerobic	NT
Yeast	NT
Mold	NT

Terpene (GC-MS)	mg/mL	mg/Bottle
Compound		
alpha-Pinene	NT	NT
Camphene	NT	NT
Sabinene	NT	NT
beta-Myrcene	NT	NT
Beta-Pinene	NT	NT
p-mentha-1-5-diene	NT	NT
(1S)-(+)-3-Carene	NT	NT
Alpha-Terpinene	NT	NT
Ocimene Isomer 1	NT	NT
(R)-(+)-Limonene	NT	NT
Ocimene Isomer2	NT	NT
Eucalyptol (1,8-Cineole)	NT	NT
gamma-Terpinene	NT	NT
Sabinene Hydrate	NT	NT
Terpinolene	NT	NT
Linalool	NT	NT
(+)-Fenchone and L(-)-Fenchone	NT	NT
1R)-Endo-(+)-Fenchyl	NT	NT
(-)-Isopulegol	NT	NT
Camphor	NT	NT
Isoborneol	NT	NT
Hexahydrothymol	NT	NT
(+)-Borneol and (-) Borneol	NT	NT
alpha-Terpineol	NT	NT
gamma-Terpineol	NT	NT
Nerol	NT	NT
Geraniol	NT	NT
(+) -Pulegone	NT	NT
Geranyl Acetate	NT	NT
alpha-Cedrene	NT	NT
trans- Caryophyllene	NT	NT
alpha-Humulene	NT	NT
Valencene	NT	NT
cis-Nerolidol	NT	NT
trans-Nerolidol	NT	NT
Guaiol	NT	NT
(-)-Caryophyllene Oxide	NT	NT
(+)-Cedrol	NT	NT
(-)-alpha-Bisabolol	NT	NT
Total Terpenes	NT	NT



Chemist: SF
Report Expires: 11/08/19

RL=Reporting Limit
NA=Not Applicable
NT=Not Tested
ND=Non Detected
TNTC=Too Numerous to Count

Confidential

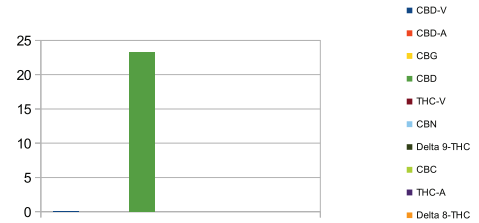
Reported on 08/09/2019

DESERT VALLEY TESTING
51 W. Weldon Ave
Phoenix, Arizona 85013
480-788-6644
www.desertvalleytesting.com

Sample Information	
Sample Identification	Melon Mango
Laboratory Number	2019016741
Batch Number	NA
Matrix	Vape Oil
Analyzed Date	08/09/19
Extraction Date	08/09/19

Cannabinoid (HPLC)	mg/mL	mg/Bottle	%
Compound			
CBD-V	0.06	0.55	0.00%
CBD-A	ND	ND	ND
CBG	ND	ND	ND
CBD	26.24	262.38	2.20%
THC-V	ND	ND	ND
CBN	ND	ND	ND
Delta 9-THC	ND	ND	ND
CBC	ND	ND	ND
THC-A	ND	ND	ND
Delta 8-THC	ND	ND	ND
Cannabinoids Total			
Max Active THC	**ND**	**ND**	**ND**
Max Active CBD	**26.24**	**262.38**	**2.20%**
T. Active Cannabinoids	26.29	262.93	2.21%
Total Cannabinoids	26.29	262.93	2.21%

Max Active Ratios
ND :1 CBD to THC
ND :1 THC to CBD



Sample Image

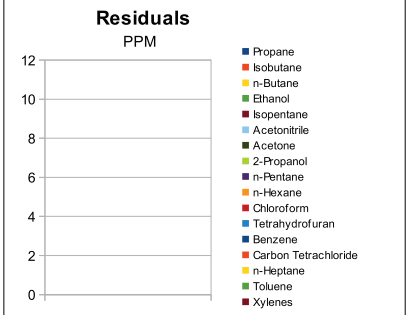
Micro Visual:	NT

Percent Moisture
NT

Chemist: SF
Report Expires: 11/08/19

RL=Reporting Limit
NA=Not Applicable
NT=Not Tested
ND=Non Detected
TNTC=Too Numerous to Count

RS (GCMS-HS)	PPM	RL
Compound		
Propane	NT	5.0
Isobutane	NT	5.0
n-Butane	NT	5.0
Ethanol	NT	5.0
Isopentane	NT	5.0
Acetonitrile	NT	5.0
Acetone	NT	50.0
2-Propanol	NT	5.0
n-Pentane	NT	5.0
n-Hexane	NT	5.0
Chloroform	NT	5.0
Tetrahydrofuran	NT	5.0
Benzene	NT	5.0
Carbon Tetrachloride	NT	5.0
n-Heptane	NT	5.0
Toluene	NT	5.0
Xylenes	NT	10.0

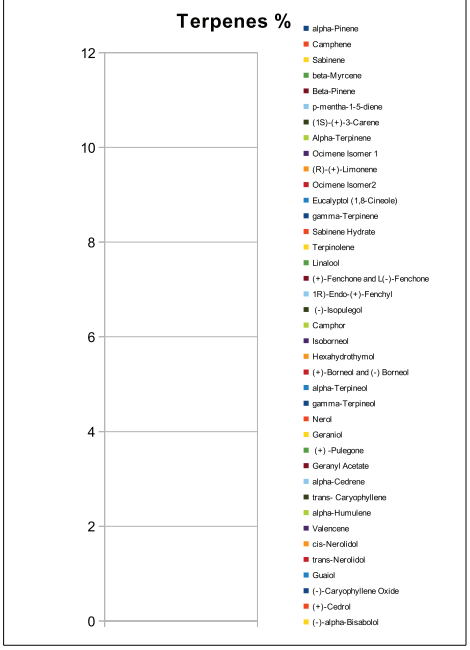


mL/Bottle
10
mg THC/Bottle
ND
mg CBD/Bottle
262.38
(mg) total cannabinoids/bottle
262.93

Metals	PPM	RL
Compound		
Lead	NT	0.018
Arsenic	NT	0.007
Cadmium	NT	0.004
Mercury	NT	0.020

Microbial	CFU/g
Compound	
Enterobacteriaceae	NT
Coliform	NT
Ecoli	NT
Aerobic	NT
Yeast	NT
Mold	NT

Terpene (GC-MS)	mg/mL	mg/Bottle
Compound		
alpha-Pinene	NT	NT
Camphene	NT	NT
Sabinene	NT	NT
beta-Myrcene	NT	NT
Beta-Pinene	NT	NT
p-mentha-1-5-diene	NT	NT
(1S)-(+)-3-Carene	NT	NT
Alpha-Terpinene	NT	NT
Ocimene Isomer 1	NT	NT
(R)-(+)-Limonene	NT	NT
Ocimene Isomer2	NT	NT
Eucalyptol (1,8-Cineole)	NT	NT
gamma-Terpinene	NT	NT
Sabinene Hydrate	NT	NT
Terpinolene	NT	NT
Linalool	NT	NT
(+)-Fenchone and L(-)-Fenchone	NT	NT
1R)-Endo-(+)-Fenchyl	NT	NT
(-)-Isopulegol	NT	NT
Camphor	NT	NT
Isoborneol	NT	NT
Hexahydrothymol	NT	NT
(+)-Borneol and (-) Borneol	NT	NT
alpha-Terpineol	NT	NT
gamma-Terpineol	NT	NT
Nerol	NT	NT
Geraniol	NT	NT
(+) -Pulegone	NT	NT
Geranyl Acetate	NT	NT
alpha-Cedrene	NT	NT
trans- Caryophyllene	NT	NT
alpha-Humulene	NT	NT
Valencene	NT	NT
cis-Nerolidol	NT	NT
trans-Nerolidol	NT	NT
Guaiol	NT	NT
(-)-Caryophyllene Oxide	NT	NT
(+)-Cedrol	NT	NT
(-)-alpha-Bisabolol	NT	NT
Total Terpenes	NT	NT



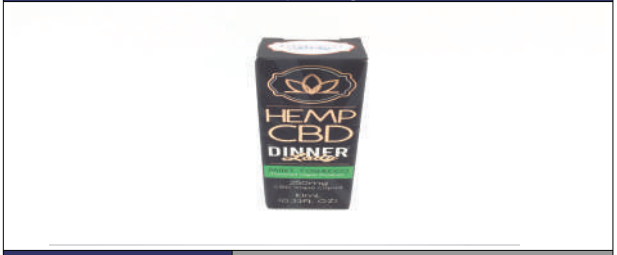
Reported on 08/09/2019

DESERT VALLEY TESTING
51 W. Weldon Ave
Phoenix, Arizona 85013
480-788-6644
www.desertvalleytesting.com

Sample Information	
Sample Identification	Mint Tobacco
Laboratory Number	2019016738
Batch Number	NA
Matrix	Vape Oil
Analyzed Date	08/09/19
Extraction Date	08/09/19

Cannabinoid (HPLC)	mg/mL	mg/Bottle	%
Compound			
CBD-V	0.06	0.57	0.00%
CBD-A	ND	ND	ND
CBG	ND	ND	ND
CBD	25.94	259.43	2.01%
THC-V	ND	ND	ND
CBN	ND	ND	ND
Delta 9-THC	ND	ND	ND
CBC	ND	ND	ND
THC-A	ND	ND	ND
Delta 8-THC	ND	ND	ND
Cannabinoids Total			
Max Active THC	**ND**	**ND**	**ND**
Max Active CBD	**25.94**	**259.43**	**2.01%**
T. Active Cannabinoids	26.04	260.49	2.01%
Total Cannabinoids	26.04	260.49	2.01%

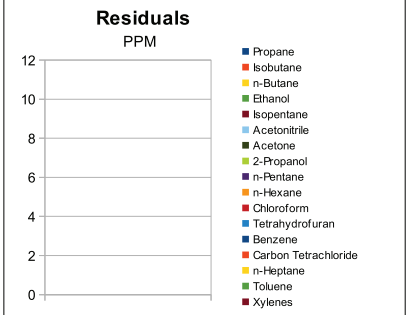
Max Active Ratios
ND :1 CBD to THC
ND :1 THC to CBD

Sample Image

Micro Visual: NT
Percent Moisture
NT

Chemist: SF
Report Expires: 11/08/19

RL=Reporting Limit
NA=Not Applicable
NT=Not Tested
ND=Non Detected
TNTC=Too Numerous to Count

RS (GCMS-HS)	PPM	RL
Compound		
Propane	NT	5.0
Isobutane	NT	5.0
n-Butane	NT	5.0
Ethanol	NT	5.0
Isopentane	NT	5.0
Acetonitrile	NT	5.0
Acetone	NT	50.0
2-Propanol	NT	5.0
n-Pentane	NT	5.0
n-Hexane	NT	5.0
Chloroform	NT	5.0
Tetrahydrofuran	NT	5.0
Benzene	NT	5.0
Carbon Tetrachloride	NT	5.0
n-Heptane	NT	5.0
Toluene	NT	5.0
Xylenes	NT	10.0

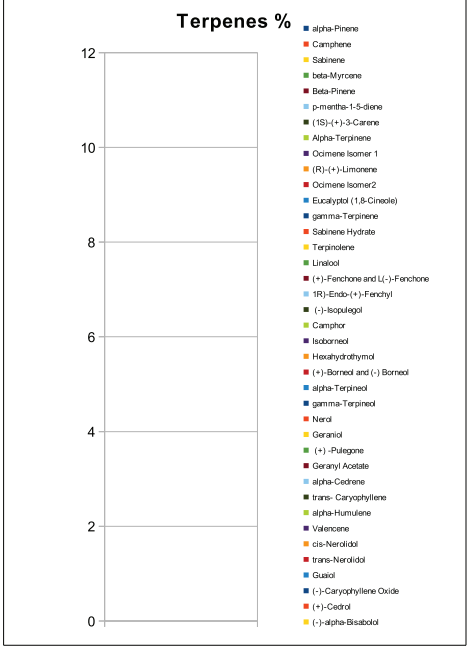


mL/Bottle
10
mg THC/Bottle
ND
mg CBD/Bottle
259.43
(mg) total cannabinoids/bottle
260.49

Metals	PPM	RL
Compound		
Lead	NT	0.018
Arsenic	NT	0.007
Cadmium	NT	0.004
Mercury	NT	0.020

Microbial	CFU/g
Compound	
Enterobacteriaceae	NT
Coliform	NT
Ecoli	NT
Aerobic	NT
Yeast	NT
Mold	NT

Terpene (GC-MS)	mg/mL	mg/Bottle
Compound		
alpha-Pinene	NT	NT
Camphene	NT	NT
Sabinene	NT	NT
beta-Myrcene	NT	NT
Beta-Pinene	NT	NT
p-mentha-1-5-diene	NT	NT
(1S)-(+)-3-Carene	NT	NT
Alpha-Terpinene	NT	NT
Ocimene Isomer 1	NT	NT
(R)-(+)-Limonene	NT	NT
Ocimene Isomer2	NT	NT
Eucalyptol (1,8-Cineole)	NT	NT
gamma-Terpinene	NT	NT
Sabinene Hydrate	NT	NT
Terpinolene	NT	NT
Linalool	NT	NT
(+)-Fenchone and L(-)-Fenchone	NT	NT
1R)-Endo-(+)-Fenchyl	NT	NT
(-)-Isopulegol	NT	NT
Camphor	NT	NT
Isoborneol	NT	NT
Hexahydrothymol	NT	NT
(+)-Borneol and (-) Borneol	NT	NT
alpha-Terpineol	NT	NT
gamma-Terpineol	NT	NT
Nerol	NT	NT
Geraniol	NT	NT
(+) -Pulegone	NT	NT
Geranyl Acetate	NT	NT
alpha-Cedrene	NT	NT
trans- Caryophyllene	NT	NT
alpha-Humulene	NT	NT
Valencene	NT	NT
cis-Nerolidol	NT	NT
trans-Nerolidol	NT	NT
Guaiol	NT	NT
(-)-Caryophyllene Oxide	NT	NT
(+)-Cedrol	NT	NT
(-)-alpha-Bisabolol	NT	NT
Total Terpenes	NT	NT



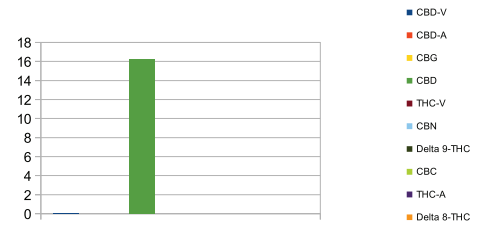
Reported on 08/09/2019

DESERT VALLEY TESTING
51 W. Weldon Ave
Phoenix, Arizona 85013
480-788-6644
www.desertvalleytesting.com

Sample Information	
Sample Identification	Sweet Fruits
Laboratory Number	2019016740
Batch Number	NA
Matrix	Vape Oil
Analyzed Date	08/09/19
Extraction Date	08/09/19

Cannabinoid (HPLC)	mg/mL	mg/Bottle	%
Compound			
CBD-V	0.06	0.57	0.00%
CBD-A	ND	ND	ND
CBG	ND	ND	ND
CBD	26.44	264.43	2.13%
THC-V	ND	ND	ND
CBN	ND	ND	ND
Delta 9-THC	ND	ND	ND
CBC	ND	ND	ND
THC-A	ND	ND	ND
Delta 8-THC	ND	ND	ND
Cannabinoids Total			
Max Active THC	**ND**	**ND**	**ND**
Max Active CBD	**26.44**	**264.43**	**2.13%**
T. Active Cannabinoids	26.50	265.00	2.14%
Total Cannabinoids	26.50	265.00	2.14%

Max Active Ratios
ND :1 CBD to THC
ND :1 THC to CBD



Sample Image

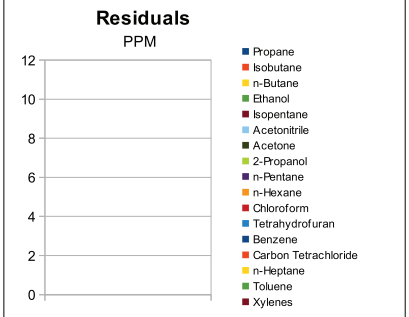
Micro Visual:	NT

Percent Moisture
NT

Chemist: SF
Report Expires: 11/08/19

RL=Reporting Limit
NA=Not Applicable
NT=Not Tested
ND=Non Detected
TNTC=Too Numerous to Count

RS (GCMS-HS)	PPM	RL
Compound		
Propane	NT	5.0
Isobutane	NT	5.0
n-Butane	NT	5.0
Ethanol	NT	5.0
Isopentane	NT	5.0
Acetonitrile	NT	5.0
Acetone	NT	50.0
2-Propanol	NT	5.0
n-Pentane	NT	5.0
n-Hexane	NT	5.0
Chloroform	NT	5.0
Tetrahydrofuran	NT	5.0
Benzene	NT	5.0
Carbon Tetrachloride	NT	5.0
n-Heptane	NT	5.0
Toluene	NT	5.0
Xylenes	NT	10.0

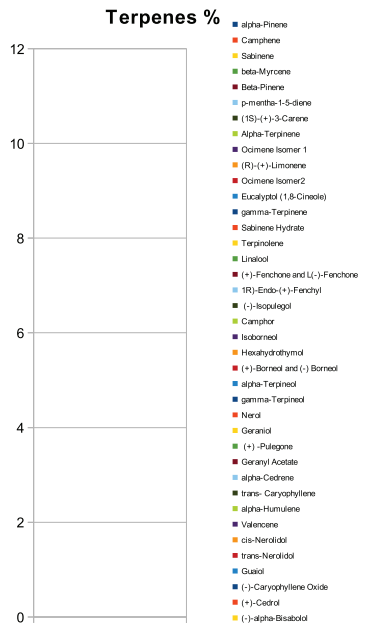


mL/Bottle
10
mg THC/Bottle
ND
mg CBD/Bottle
264.43
(mg) total cannabinoids/bottle
265.00

Metals	PPM	RL
Compound		
Lead	NT	0.018
Arsenic	NT	0.007
Cadmium	NT	0.004
Mercury	NT	0.020

Microbial	CFU/g
Compound	
Enterobacteriaceae	NT
Coliform	NT
Ecoli	NT
Aerobic	NT
Yeast	NT
Mold	NT

Terpene (GC-MS)	mg/mL	mg/Bottle
Compound		
alpha-Pinene	NT	NT
Camphene	NT	NT
Sabinene	NT	NT
beta-Myrcene	NT	NT
Beta-Pinene	NT	NT
p-mentha-1-5-diene	NT	NT
(1S)-(+)-3-Carene	NT	NT
Alpha-Terpinene	NT	NT
Ocimene Isomer 1	NT	NT
(R)-(+)-Limonene	NT	NT
Ocimene Isomer2	NT	NT
Eucalyptol (1,8-Cineole)	NT	NT
gamma-Terpinene	NT	NT
Sabinene Hydrate	NT	NT
Terpinolene	NT	NT
Linalool	NT	NT
(+)-Fenchone and L(-)-Fenchone	NT	NT
1R)-Endo-(+)-Fenchyl	NT	NT
(-)-Isopulegol	NT	NT
Camphor	NT	NT
Isoborneol	NT	NT
Hexahydrothymol	NT	NT
(+)-Borneol and (-) Borneol	NT	NT
alpha-Terpineol	NT	NT
gamma-Terpineol	NT	NT
Nerol	NT	NT
Geraniol	NT	NT
(+) -Pulegone	NT	NT
Geranyl Acetate	NT	NT
alpha-Cedrene	NT	NT
trans- Caryophyllene	NT	NT
alpha-Humulene	NT	NT
Valencene	NT	NT
cis-Nerolidol	NT	NT
trans-Nerolidol	NT	NT
Guaiol	NT	NT
(-)-Caryophyllene Oxide	NT	NT
(+)-Cedrol	NT	NT
(-)-alpha-Bisabolol	NT	NT
Total Terpenes	NT	NT



Reported on 08/09/2019

HEMP LABORATORY TEST

CERTIFICATE OF ANALYSIS

Hemp Analysis - Summary

Tested by high-performance liquid chromatography with ultraviolet detection (HPLC-UV).

Scan to verify at sclabs.com

TOTAL THC[1]

Not Detected[2]

CANNABINOID PROFILE

5.7407% Total CBD[1]

5.7601% Total Cannabinoids[3]

Terpenes Not Tested

1) Total THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step: Total THC = Δ9THC + (THCa (0.877)) and Total CBD = CBD + (CBDa (0.877)).
2) As defined by the 2018 Farm Bill, hemp must contain no more than 0.3% Total THC, defined as the concentration of delta-9 tetrahydrocannabinol (Δ-9-THC) post-decarboxylation - see formula above.
3) Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

Additional Testing

Pass/Fail defined at action limits set by California Code of Regulations Title 16. Effective date: January 16, 2019. Authority: Section 26013, Business Professions Code. Reference: Sections 26100, 26104, and 26110, Business Professions Code.

Dinner Lady Hawaiian

Tested for: Alo Group

Address:

Batch #:

Sample ID: 191217R001

Date Collected: 12/17/2019

Date Received: 12/17/2019

Final Approval

Danielle Deschene, LQC Verified By
Date: 12/19/2019

Josh Wurzer, President
Date: 12/19/2019

These results relate only to the sample included on this report. This report shall not be reproduced except in full, without written approval of the laboratory. The uncertainty of measurement associated with the measurement result reported in this certificate is available from SC Laboratories upon request.

HEMP LABORATORY TEST
CERTIFICATE OF ANALYSIS

SC Laboratories, LLC
100 Pioneer Street, Suite E
Santa Cruz, CA 95060
(866) 435-0709 | sclabs.com

Sample Name:	Dinner Lady Hawaiian
LIMS Sample ID:	191217R001
Batch #:	
Source Metrc ID(s):	
Sample Type:	Other
Batch Count:	
Sample Count:	
Unit Mass:	
Serving Mass:	
Density:	1.0794 g/mL

Date Collected:	12/17/2019
Date Received:	12/17/2019
Tested for:	Alo Group
License #:	
Address:	
Produced by:	
License #:	
Address:	

Moisture Test Results

	Results (%)
Moisture	NT

Cannabinoid Test Results 12/18/2019

Cannabinoid analysis utilizing High Performance Liquid Chromatography (HPLC, QSP 5-4-4-4)

	mg/mL	%	LOD / LOQ mg/mL
Δ9THC	ND	ND	0.0009 / 0.003
Δ8THC	ND	ND	0.0009 / 0.003
THCa	ND	ND	0.0009 / 0.003
THCV	ND	ND	0.0004 / 0.001
THCVa	ND	ND	0.0013 / 0.004
CBD	61.965	5.7407	0.0009 / 0.003
CBDa	ND	ND	0.0009 / 0.003
CBDV	0.210	0.0195	0.0004 / 0.001
CBDVa	ND	ND	0.0003 / 0.001
CBG	ND	ND	0.001 / 0.003
CBGa	ND	ND	0.0008 / 0.002
CBL	ND	ND	0.0021 / 0.006
CBN	ND	ND	0.0009 / 0.003
CBC	ND	ND	0.0011 / 0.003
CBCa	ND	ND	0.0015 / 0.005
Sum of Cannabinoids:	**62.175**	**5.7601**	
Total THC (Δ9THC+0.877*THCa)	ND	ND	
Total CBD (CBD+0.877*CBDa)	61.965	5.7407	

Action Limit mg

Δ9THC per Unit
Δ9THC per Serving

Batch Photo

Terpene Test Results

Terpene analysis utilizing Gas Chromatography - Flame Ionization Detection (GC - FID)

	mg/g	%	LOD / LOQ mg/g
⍰ Bisabolol	NT		
⍰ Pinene	NT		
3 Carene	NT		
Borneol	NT		
⍰ Caryophyllene	NT		
Geraniol	NT		
⍰ Humulene	NT		
Terpinolene	NT		
Valencene	NT		
Menthol	NT		
Nerolidol	NT		
Camphene	NT		
Eucalyptol	NT		
⍰ Cedrene	NT		
Camphor	NT		
(-)-Isopulegol	NT		
Sabinene	NT		
⍰ Terpinene	NT		
⍰ Terpinene	NT		
Linalool	NT		
Limonene	NT		
Myrcene	NT		
Fenchol	NT		
⍰ Phellandrene	NT		
Caryophyllene Oxide	NT		
Terpineol	NT		
⍰ Pinene	NT		
R-(+)-Pulegone	NT		
Geranyl Acetate	NT		
Citronellol	NT		
p-Cymene	NT		
Ocimene	NT		
Guaiol	NT		
Phytol	NT		
Isoborneol	NT		
Total Terpene Concentration:	NT		

Sample Certification

California Code of Regulations Title 16 Effect Date January 16, 2019
Authority: Section 26013, Business and Professions Code.
Reference: Sections 26100, 26104 and 26110, Business and Professions Code.

Danielle Deschene, LQC Verified By
Date: 12/19/2019

Josh Wurzer, President
Date: 12/19/2019

Scan to verify at sclabs.com
Sample must be marked as public to be viewable

SC Laboratories, LLC
100 Pioneer Street, Suite E
Santa Cruz, CA 95060
(866) 435-0709 | sclabs.com

Sample Name:	Dinner Lady Hawaiian
LIMS Sample ID:	191217R001
Batch #:	
Source Metrc ID(s):	
Sample Type:	Other
Batch Count:	
Sample Count:	
Unit Mass:	
Serving Mass:	
Density:	1.0794 g/mL

Date Collected:	12/17/2019
Date Received:	12/17/2019
Tested for:	Alo Group
License #:	
Address:	
Produced by:	
License #:	
Address:	

Pesticide Test Results

Pesticide, Fungicide and plant growth regulator analysis utilizing HPLC-Mass Spectrometry and GC-Mass Spectrometry

	Results (µg/g)	Action Limit µg/g	LOD / LOQ µg/g
Abamectin	NT		
Acephate	NT		
Acequinocyl	NT		
Acetamiprid	NT		
Azoxystrobin	NT		
Bifenazate	NT		
Bifenthrin	NT		
Boscalid	NT		
Captan	NT		
Carbaryl	NT		
Chlorantraniliprole	NT		
Clofentezine	NT		
Cyfluthrin	NT		
Cypermethrin	NT		
Diazinon	NT		
Dimethomorph	NT		
Etoxazole	NT		
Fenhexamid	NT		
Fenpyroximate	NT		
Flonicamid	NT		
Fludioxonil	NT		
Hexythiazox	NT		
Imidacloprid	NT		
Kresoxim-methyl	NT		
Malathion	NT		
Metalaxyl	NT		
Methomyl	NT		
Myclobutanil	NT		
Naled	NT		
Oxamyl	NT		
Pentachloronitrobenzene	NT		
Permethrin	NT		
Phosmet	NT		
Piperonylbutoxide	NT		
Prallethrin	NT		
Propiconazole	NT		
Pyrethrins	NT		
Pyridaben	NT		
Spinetoram	NT		
Spinosad	NT		
Spiromesifen	NT		
Spirotetramat	NT		
Tebuconazole	NT		
Thiamethoxam	NT		
Trifloxystrobin	NT		

Pesticide Test Results

Pesticide, Fungicide and plant growth regulator analysis utilizing HPLC-Mass Spectrometry and GC-Mass Spectrometry

	Results (µg/g)	Action Limit µg/g	LOD / LOQ µg/g
Aldicarb	NT		
Carbofuran	NT		
Chlordane	NT		
Chlorfenapyr	NT		
Chlorpyrifos	NT		
Coumaphos	NT		
Daminozide	NT		
DDVP (Dichlorvos)	NT		
Dimethoate	NT		
Ethoprop(hos)	NT		
Etofenprox	NT		
Fenoxycarb	NT		
Fipronil	NT		
Imazalil	NT		
Methiocarb	NT		
Methyl parathion	NT		
Mevinphos	NT		
Paclobutrazol	NT		
Propoxur	NT		
Spiroxamine	NT		
Thiacloprid	NT		

Mycotoxin Test Results

Mycotoxin analysis utilizing HPLC-Mass Spectrometry

	Results (µg/kg)	Action Limit µg/kg	LOD / LOQ µg/kg
Aflatoxin B1, B2, G1, G2	NT		
Ochratoxin A	NT		

Sample Certification

California Code of Regulations Title 16 Effect Date January 16, 2019
Authority: Section 26013, Business and Professions Code.
Reference: Sections 26100, 26104 and 26110, Business and Professions Code.

Scan to verify at sclabs.com
Sample must be marked as public to be viewable

Danielle Deschene, LQC Verified By
Date: 12/19/2019

Josh Wurzer, President
Date: 12/19/2019

HEMP LABORATORY TEST
CERTIFICATE OF ANALYSIS

SC Laboratories, LLC
100 Pioneer Street, Suite E
Santa Cruz, CA 95060
(866) 435-0709 | sclabs.com

Sample Name:	Dinner Lady Hawaiian
LIMS Sample ID:	191217R001
Batch #:	
Source Metrc ID(s):	
Sample Type:	Other
Batch Count:	
Sample Count:	
Unit Mass:	
Serving Mass:	
Density:	1.0794 g/mL

Date Collected:	12/17/2019
Date Received:	12/17/2019
Tested for:	Alo Group
License #:	
Address:	
Produced by:	
License #:	
Address:	

Residual Solvent Test Results

Residual Solvent analysis utilizing Gas Chromatography - Mass Spectrometry (GC - MS)

	Results (µg/g)	Action Limit µg/g	LOD / LOQ µg/g
1,2-Dichloroethane	NT		
Benzene	NT		
Chloroform	NT		
Ethylene Oxide	NT		
Methylene chloride	NT		
Trichloroethylene	NT		
Acetone	NT		
Acetonitrile	NT		
Butane	NT		
Ethanol	NT		
Ethyl acetate	NT		
Ethyl ether	NT		
Heptane	NT		
Hexane	NT		
Isopropyl Alcohol	NT		
Methanol	NT		
Pentane	NT		
Propane	NT		
Toluene	NT		
Total Xylenes	NT		

Microbiological Test Results

PCR and fluorescence detection of microbiological impurities

	Results	Action Limit
Shiga toxin-producing Escherichia coli	NT	
Salmonella spp.	NT	
Aspergillus fumigatus	NT	
Aspergillus flavus	NT	
Aspergillus niger	NT	
Aspergillus terreus	NT	

3M Petrifilm and plate counts for microbiological contamination

	Results (cfu/g)
Aerobic Plate Count	NT
Total Yeast and Mold	NT

Foreign Material Test Results

NT

Water Activity Test Results

	Results (Aw)	Action Limit Aw
Water Activity	NT	

Heavy Metal Test Results

Heavy metal analysis utilizing Inductively Coupled Plasma Mass Spectrometry (ICP-MS)

	Results (µg/g)	Action Limit µg/g	LOD / LOQ µg/g
Cadmium	NT		
Lead	NT		
Arsenic	NT		
Mercury	NT		

Note

Sample Certification

California Code of Regulations Title 16 Effect Date January 16, 2019
Authority: Section 26013, Business and Professions Code.
Reference: Sections 26100, 26104 and 26110, Business and Professions Code.

Danielle Deschene, LQC Verified By
Date: 12/19/2019

Josh Wurzer, President
Date: 12/19/2019

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HEMP LABORATORY TEST

CERTIFICATE OF ANALYSIS

Hemp Analysis - Summary

Tested by high-performance liquid chromatography with ultraviolet detection (HPLC-UV).

Scan to verify at sclabs.com

TOTAL THC[1]

0.0023%[2]

CANNABINOID PROFILE

5.0679% Total CBD[1]
5.0702% Total Cannabinoids[3]
Terpenes Not Tested

1) Total THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step: Total THC = Δ9THC + (THCa (0.877)) and Total CBD = CBD + (CBDa (0.877)).
2) As defined by the 2018 Farm Bill, hemp must contain no more than 0.3% Total THC, defined as the concentration of delta-9 tetrahydrocannabinol (Δ-9-THC) post-decarboxylation - see formula above.
3) Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

Additional Testing

Pass/Fail defined at action limits set by California Code of Regulations Title 16. Effective date: January 16, 2019. Authority: Section 26013, Business Professions Code. Reference: Sections 26100, 26104, and 26110, Business Professions Code.

Jewel Mango 50mg CBD

Tested for: Alo Group

Address:

Batch #:

Sample ID: 200122S003
Date Collected: 01/22/2020
Date Received: 01/22/2020

Final Approval

Josh Wurzer, President
Date: 01/25/2020

These results relate only to the sample included on this report. This report shall not be reproduced except in full, without written approval of the laboratory. The uncertainty of measurement associated with the measurement result reported in this certificate is available from SC Laboratories upon request.

HEMP LABORATORY TEST
CERTIFICATE OF ANALYSIS

SC Laboratories, LLC
100 Pioneer Street, Suite E
Santa Cruz, CA 95060
(866) 435-0709 | sclabs.com

Sample Name:	Jewel Mango 50mg CBD
LIMS Sample ID:	200122S003
Batch #:	
Source METRC UID:	
Sample Type:	E-Juice, Product Inhalable
Batch Count:	
Sample Count:	
Unit Mass:	1.2 Grams per Unit
Serving Mass:	
Density:	1.0966 g/mL

Date Collected:	01/22/2020
Date Received:	01/22/2020
Tested for:	Alo Group
License #:	
Address:	
Produced by:	
License #:	
Address:	

Moisture Test Results

	Results (%)
Moisture	NT

Cannabinoid Test Results 01/25/2020

Cannabinoid analysis utilizing High Performance Liquid Chromatography (HPLC, QSP 5-4-4-4)

	mg/g	%	LOD / LOQ mg/g
Δ9THC	0.023	0.0023	0.0009 / 0.003
Δ8THC	ND	ND	0.0009 / 0.003
THCa	ND	ND	0.0009 / 0.003
THCV	ND	ND	0.0004 / 0.001
THCVa	ND	ND	0.0013 / 0.004
CBD	50.679	5.0679	0.0009 / 0.003
CBDa	ND	ND	0.0009 / 0.003
CBDV	ND	ND	0.0004 / 0.001
CBDVa	ND	ND	0.0003 / 0.001
CBG	<LOQ	<LOQ	0.001 / 0.003
CBGa	ND	ND	0.0008 / 0.002
CBL	ND	ND	0.0021 / 0.006
CBN	ND	ND	0.0009 / 0.003
CBC	ND	ND	0.0011 / 0.003
CBCa	ND	ND	0.0015 / 0.005
Sum of Cannabinoids:	**50.702**	**5.0702**	**60.842 mg/Unit**
Total THC (Δ9THC+0.877*THCa)	0.023	0.0023	0.028 mg/Unit
Total CBD (CBD+0.877*CBDa)	50.679	5.0679	60.815 mg/Unit

	Action Limit mg		
Δ9THC per Unit	1000.0	Pass	0.028 mg/Unit
Δ9THC per Serving			

Batch Photo

Terpene Test Results

Terpene analysis utilizing Gas Chromatography - Flame Ionization Detection (GC - FID)

	mg/g	%	LOD / LOQ mg/g
⍰ Bisabolol	NT		
⍰ Pinene	NT		
3 Carene	NT		
Borneol	NT		
⍰ Caryophyllene	NT		
Geraniol	NT		
⍰ Humulene	NT		
Terpinolene	NT		
Valencene	NT		
Menthol	NT		
Nerolidol	NT		
Camphene	NT		
Eucalyptol	NT		
⍰ Cedrene	NT		
Camphor	NT		
(-)-Isopulegol	NT		
Sabinene	NT		
⍰ Terpinene	NT		
⍰ Terpinene	NT		
Linalool	NT		
Limonene	NT		
Myrcene	NT		
Fenchol	NT		
⍰ Phellandrene	NT		
Caryophyllene Oxide	NT		
Terpineol	NT		
⍰ Pinene	NT		
R-(+)-Pulegone	NT		
Geranyl Acetate	NT		
Citronellol	NT		
p-Cymene	NT		
Ocimene	NT		
Guaiol	NT		
Phytol	NT		
Isoborneol	NT		
Total Terpene Concentration:	NT		

Sample Certification

California Code of Regulations Title 16 Effect Date January 16, 2019
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Josh Wurzer, President
Date: 01/25/2020

HEMP LABORATORY TEST

CERTIFICATE OF ANALYSIS

SC Laboratories, LLC
100 Pioneer Street, Suite E
Santa Cruz, CA 95060
(866) 435-0709 | sclabs.com

Sample Name:	Jewel Mango 50mg CBD
LIMS Sample ID:	200122S003
Batch #:	
Source METRC UID:	
Sample Type:	E-Juice, Product Inhalable
Batch Count:	
Sample Count:	
Unit Mass:	1.2 Grams per Unit
Serving Mass:	
Density:	1.0966 g/mL

Date Collected:	01/22/2020
Date Received:	01/22/2020
Tested for:	Alo Group
License #:	
Address:	
Produced by:	
License #:	
Address:	

Pesticide Test Results

Pesticide, Fungicide and plant growth regulator analysis utilizing HPLC-Mass Spectrometry and GC-Mass Spectrometry

	Results (µg/g)	Action Limit µg/g	LOD / LOQ µg/g
Abamectin	NT		
Acephate	NT		
Acequinocyl	NT		
Acetamiprid	NT		
Azoxystrobin	NT		
Bifenazate	NT		
Bifenthrin	NT		
Boscalid	NT		
Captan	NT		
Carbaryl	NT		
Chlorantraniliprole	NT		
Clofentezine	NT		
Cyfluthrin	NT		
Cypermethrin	NT		
Diazinon	NT		
Dimethomorph	NT		
Etoxazole	NT		
Fenhexamid	NT		
Fenpyroximate	NT		
Flonicamid	NT		
Fludioxonil	NT		
Hexythiazox	NT		
Imidacloprid	NT		
Kresoxim-methyl	NT		
Malathion	NT		
Metalaxyl	NT		
Methomyl	NT		
Myclobutanil	NT		
Naled	NT		
Oxamyl	NT		
Pentachloronitrobenzene	NT		
Permethrin	NT		
Phosmet	NT		
Piperonylbutoxide	NT		
Prallethrin	NT		
Propiconazole	NT		
Pyrethrins	NT		
Pyridaben	NT		
Spinetoram	NT		
Spinosad	NT		
Spiromesifen	NT		
Spirotetramat	NT		
Tebuconazole	NT		
Thiamethoxam	NT		
Trifloxystrobin	NT		

Pesticide Test Results

Pesticide, Fungicide and plant growth regulator analysis utilizing HPLC-Mass Spectrometry and GC-Mass Spectrometry

	Results (µg/g)	Action Limit µg/g	LOD / LOQ µg/g
Aldicarb	NT		
Carbofuran	NT		
Chlordane	NT		
Chlorfenapyr	NT		
Chlorpyrifos	NT		
Coumaphos	NT		
Daminozide	NT		
DDVP (Dichlorvos)	NT		
Dimethoate	NT		
Ethoprop(hos)	NT		
Etofenprox	NT		
Fenoxycarb	NT		
Fipronil	NT		
Imazalil	NT		
Methiocarb	NT		
Methyl parathion	NT		
Mevinphos	NT		
Paclobutrazol	NT		
Propoxur	NT		
Spiroxamine	NT		
Thiacloprid	NT		

Mycotoxin Test Results

Mycotoxin analysis utilizing HPLC-Mass Spectrometry

	Results (µg/kg)	Action Limit µg/kg	LOD / LOQ µg/kg
Aflatoxin B1, B2, G1, G2	NT		
Ochratoxin A	NT		

Sample Certification

California Code of Regulations Title 16 Effect Date January 16, 2019
Authority: Section 26013, Business and Professions Code.
Reference: Sections 26100, 26104 and 26110, Business and Professions Code.

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Josh Wurzer, President
Date: 01/25/2020

HEMP LABORATORY TEST
CERTIFICATE OF ANALYSIS

SC Laboratories, LLC
100 Pioneer Street, Suite E
Santa Cruz, CA 95060
(866) 435-0709 | sclabs.com

Sample Name:	Jewel Mango 50mg CBD
LIMS Sample ID:	200122S003
Batch #:	
Source METRC UID:	
Sample Type:	E-Juice, Product Inhalable
Batch Count:	
Sample Count:	
Unit Mass:	1.2 Grams per Unit
Serving Mass:	
Density:	1.0966 g/mL

Date Collected:	01/22/2020
Date Received:	01/22/2020
Tested for:	Alo Group
License #:	
Address:	
Produced by:	
License #:	
Address:	

Residual Solvent Test Results

Residual Solvent analysis utilizing Gas Chromatography - Mass Spectrometry (GC - MS)

	Results (µg/g)	Action Limit µg/g	LOD / LOQ µg/g
1,2-Dichloroethane	NT		
Benzene	NT		
Chloroform	NT		
Ethylene Oxide	NT		
Methylene chloride	NT		
Trichloroethylene	NT		
Acetone	NT		
Acetonitrile	NT		
Butane	NT		
Ethanol	NT		
Ethyl acetate	NT		
Ethyl ether	NT		
Heptane	NT		
Hexane	NT		
Isopropyl Alcohol	NT		
Methanol	NT		
Pentane	NT		
Propane	NT		
Toluene	NT		
Total Xylenes	NT		

Microbiological Test Results

PCR and fluorescence detection of microbiological impurities

	Results	Action Limit
Shiga toxin-producing Escherichia coli	NT	
Salmonella spp.	NT	
Aspergillus fumigatus	NT	
Aspergillus flavus	NT	
Aspergillus niger	NT	
Aspergillus terreus	NT	

3M Petrifilm and plate counts for microbiological contamination

	Results (cfu/g)
Aerobic Plate Count	NT
Total Yeast and Mold	NT

Foreign Material Test Results

NT

Water Activity Test Results

	Results (Aw)	Action Limit Aw
Water Activity	NT	

Heavy Metal Test Results

Heavy metal analysis utilizing Inductively Coupled Plasma Mass Spectrometry (ICP-MS)

	Results (µg/g)	Action Limit µg/g	LOD / LOQ µg/g
Cadmium	NT		
Lead	NT		
Arsenic	NT		
Mercury	NT		

Note

Sample Certification

California Code of Regulations Title 16 Effect Date January 16, 2019
Authority: Section 26013, Business and Professions Code.
Reference: Sections 26100, 26104 and 26110, Business and Professions Code.

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Josh Wurzer, President
Date: 01/25/2020

BULKNATURALOILS.COM
JEDWARDS INTERNATIONAL, INC.

HEMP SEED OIL - VIRGIN Ⓤ

CERTIFICATE OF ANALYSIS
LOT: 62-QVLYPIC-02

Date of Production: August, 2019
Expiration Date: August, 2022

Allergens: Contains seeds (hemp)

Parameter	Units	Limits		Results
		Min	Max	
Free Fatty Acids	%			0.4
Peroxide Value	meq/kg		10	3.2
Fatty Acid Profile (Area %)				
C16:0 Palmitic		4		4.8
C18:0 Stearic		1		1.6
C18:1 Oleic		5		9.6
C18:2 Linoleic		44		59.7
C18:3 Alpha Linolenic		14		18.2

Shelf life is guaranteed for three years from the date of production if the product is stored in the unopened original container between 15°C - 30°C, protected from light. Because this material is sensitive to oxidation, it is saturated with nitrogen and sealed with nitrogen atmosphere for protection. If containers are opened for sampling, be sure to refill atmosphere with nitrogen. Containers that have been opened should be tested at least yearly to ensure potency. Although Jedwards International, Inc. believes the above information to be accurate based on the information available to Jedwards, it is the responsibility of the customer and user of the material to perform its own investigation and due diligence prior to use to verify that the product purchased from Jedwards meets their quality requirements and is appropriate for the use to which the product is to be put. The information provided above shall be considered effective only for the lot with which the information is being provided. Use and purchase of this material is subject to Jedwards International, Inc. standard terms and conditions, which supersede any conflicting terms contained on Buyer's purchase order or any document or instrument supplied by Buyer.

Altitude Consulting

Customer: Kiss Industries
Customer Sample ID: 75mg Dinner Lady Salve
Laboratory Number: 19L0029-01A

Cannabinoid Profile

Extraction Technician: RH
Analytical Chemist: CB

Extraction Date(s)	Analysis Date(s)
12/3/2019	12/3/2019

Cannabinoids (HPLC)		Results	
	LOD (mg/g)	%	mg/g
Cannabidivarin (CBDV)	<0.20		
Cannabidiolic Acid (CBD-A)	<0.20		
Cannabigerolic Acid (CBG-A)	<0.20		
Cannabigerol (CBG)	<0.20		
Cannabidiol (CBD)		0.00306	3.068
Tetrahydrocannabivarin (THCV)	<0.20		
Cannabinol (CBN)	<0.20		
delta 9-Tetrahydrocannabinol (THC)	<0.20		
delta 8-Tetrahydrocannabidol	<0.20		
Cannabichromene (CBC)	<0.20		
delta-9-Tetrahydrocannabinolic Acid (THC-A)	<0.20		
Cannabinoids Total		**%**	**mg/g**
Max Active THC		0.00	0.00
Max Active CBD		0.00306	3.068
T.Active Cannabinoids		0.00308	3.079
Total Cannabinoids		0.00308	3.079
Ratios			
NA:1 CBD to THC		0.00:1 THC to CBD	

Cannabinoid (mg/g)

87.28mg Total Cannabinoids per 1oz 75mg Salve

Customer: **Kiss Industries**

Customer Sample ID: **75mg Dinner Lady Salve**

Laboratory Number: **19L0029-01A**

Residual Solvents Profile

Extraction Technician: RH

Analytical Chemist: GB

Extraction Date(s)	Analysis Date(s)
12/3/2019	12/3/2019

Residual Solvents	Results	Calibration Range
	ug/g	
Propane	<92.3	100 - 2000
Isobutane	<92.3	100 - 2000
Methanol	<92.3	100 - 2000
Butane	<92.3	100 - 2000
Isopropanol	<92.3	100 - 2000
Ethanol	<92.3	100 - 2000
2-Methyl Butane	<92.3	100 - 2000
Acetonitrile	<92.3	100 - 2000
Acetone	<92.3	100 - 2000
n-Pentane	<92.3	100 - 2000
n-Hexane	<46.1	50 - 2000
Tetrahydrofuran	<92.3	100 - 2000
Benzene	<0.923	1.0 - 50
n-Heptane	<92.3	100 - 2000
Toluene	<92.3	100 - 2000
Ethylbenzene	<92.3	100 - 2000
m+p Xylene	<92.3	100 - 2000
o-Xylene	<92.3	100 - 2000
Total Xylenes	<92.3	100 - 2000
1,2,3-Trimethylbenzene	<92.3	100 - 2000

HEMP LABORATORY TEST

CERTIFICATE OF ANALYSIS

Hemp Analysis - Summary

Tested by high-performance liquid chromatography with ultraviolet detection (HPLC-UV).

Scan to verify at sclabs.com

TOTAL THC[1]

0.0041%[2]

CANNABINOID PROFILE

0.1279% Total CBD[1]

0.1388% Total Cannabinoids[3]

Terpenes Not Tested

1) Total THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step: Total THC = Δ9THC + (THCa (0.877)) and Total CBD = CBD + (CBDa (0.877)).
2) As defined by the 2018 Farm Bill, hemp must contain no more than 0.3% Total THC, defined as the concentration of delta-9 tetrahydrocannabinol (Δ-9-THC) post-decarboxylation - see formula above.
3) Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

Additional Testing

Pass/Fail defined at action limits set by California Code of Regulations Title 16. Effective date: January 16, 2019. Authority: Section 26013, Business Professions Code. Reference: Sections 26100, 26104, and 26110, Business Professions Code.

Hemp Muscle & Joint Balm

Tested for: LCF Labs

Address:

Batch #:

Sample ID: 191220R003

Date Collected: 12/20/2019

Date Received: 12/20/2019

Final Approval

Josh Wurzer, President
Date: 12/21/2019

These results relate only to the sample included on this report. This report shall not be reproduced except in full, without written approval of the laboratory. The uncertainty of measurement associated with the measurement result reported in this certificate is available from SC Laboratories upon request.

HEMP LABORATORY TEST
CERTIFICATE OF ANALYSIS

SC Laboratories, LLC
100 Pioneer Street, Suite E
Santa Cruz, CA 95060
(866) 435-0709 | sclabs.com

Sample Name:	Hemp Muscle & Joint Balm
LIMS Sample ID:	191220R003
Batch #:	
Source Metrc ID(s):	
Sample Type:	Infused, Topical
Batch Count:	
Sample Count:	
Unit Mass:	100 Grams per Unit
Serving Mass:	
Density:	

Date Collected:	12/20/2019
Date Received:	12/20/2019
Tested for:	LCF Labs
License #:	
Address:	
Produced by:	
License #:	
Address:	

Moisture Test Results

	Results (%)
Moisture	NT

Cannabinoid Test Results 12/21/2019

Cannabinoid analysis utilizing High Performance Liquid Chromatography (HPLC, QSP 5-4-4-4)

	mg/g	%	LOD / LOQ mg/g
Δ9THC	0.041	0.0041	0.0009 / 0.003
Δ8THC	ND	ND	0.0009 / 0.003
THCa	ND	ND	0.0009 / 0.003
THCV	ND	ND	0.0004 / 0.001
THCVa	ND	ND	0.0013 / 0.004
CBD	1.279	0.1279	0.0009 / 0.003
CBDa	ND	ND	0.0009 / 0.003
CBDV	0.006	0.0006	0.0004 / 0.001
CBDVa	ND	ND	0.0003 / 0.001
CBG	ND	ND	0.001 / 0.003
CBGa	ND	ND	0.0008 / 0.002
CBL	ND	ND	0.0021 / 0.006
CBN	ND	ND	0.0009 / 0.003
CBC	0.062	0.0062	0.0011 / 0.003
CBCa	ND	ND	0.0015 / 0.005
Sum of Cannabinoids:	**1.388**	**0.1388**	**138.800 mg/Unit**
Total THC (Δ9THC+0.877*THCa)	0.041	0.0041	4.100 mg/Unit
Total CBD (CBD+0.877*CBDa)	1.279	0.1279	127.900 mg/Unit

	Action Limit mg		
Δ9THC per Unit	1000.0	Pass	4.100 mg/Unit
Δ9THC per Serving			

Batch Photo

Terpene Test Results

Terpene analysis utilizing Gas Chromatography - Flame Ionization Detection (GC - FID)

	mg/g	%	LOD / LOQ mg/g
⍰ Bisabolol	NT		
⍰ Pinene	NT		
3 Carene	NT		
Borneol	NT		
⍰ Caryophyllene	NT		
Geraniol	NT		
⍰ Humulene	NT		
Terpinolene	NT		
Valencene	NT		
Menthol	NT		
Nerolidol	NT		
Camphene	NT		
Eucalyptol	NT		
⍰ Cedrene	NT		
Camphor	NT		
(-)-Isopulegol	NT		
Sabinene	NT		
⍰ Terpinene	NT		
⍰ Terpinene	NT		
Linalool	NT		
Limonene	NT		
Myrcene	NT		
Fenchol	NT		
⍰ Phellandrene	NT		
Caryophyllene Oxide	NT		
Terpineol	NT		
⍰ Pinene	NT		
R-(+)-Pulegone	NT		
Geranyl Acetate	NT		
Citronellol	NT		
p-Cymene	NT		
Ocimene	NT		
Guaiol	NT		
Phytol	NT		
Isoborneol	NT		
Total Terpene Concentration:	NT		

Sample Certification

California Code of Regulations Title 16 Effect Date January 16, 2019
Authority: Section 26013, Business and Professions Code.
Reference: Sections 26100, 26104 and 26110, Business and Professions Code.

Scan to verify at sclabs.com
Sample must be marked as public to be viewable

Josh Wurzer, President
Date: 12/21/2019

SC Laboratories, LLC
100 Pioneer Street, Suite E
Santa Cruz, CA 95060
(866) 435-0709 | sclabs.com

Sample Name:	Hemp Muscle & Joint Balm
LIMS Sample ID:	191220R003
Batch #:	
Source Metrc ID(s):	
Sample Type:	Infused, Topical
Batch Count:	
Sample Count:	
Unit Mass:	100 Grams per Unit
Serving Mass:	
Density:	

Date Collected:	12/20/2019
Date Received:	12/20/2019
Tested for:	LCF Labs
License #:	
Address:	
Produced by:	
License #:	
Address:	

Pesticide Test Results

Pesticide, Fungicide and plant growth regulator analysis utilizing HPLC-Mass Spectrometry and GC-Mass Spectrometry

	Results (µg/g)	Action Limit µg/g	LOD / LOQ µg/g
Abamectin	NT		
Acephate	NT		
Acequinocyl	NT		
Acetamiprid	NT		
Azoxystrobin	NT		
Bifenazate	NT		
Bifenthrin	NT		
Boscalid	NT		
Captan	NT		
Carbaryl	NT		
Chlorantraniliprole	NT		
Clofentezine	NT		
Cyfluthrin	NT		
Cypermethrin	NT		
Diazinon	NT		
Dimethomorph	NT		
Etoxazole	NT		
Fenhexamid	NT		
Fenpyroximate	NT		
Flonicamid	NT		
Fludioxonil	NT		
Hexythiazox	NT		
Imidacloprid	NT		
Kresoxim-methyl	NT		
Malathion	NT		
Metalaxyl	NT		
Methomyl	NT		
Myclobutanil	NT		
Naled	NT		
Oxamyl	NT		
Pentachloronitrobenzene	NT		
Permethrin	NT		
Phosmet	NT		
Piperonylbutoxide	NT		
Prallethrin	NT		
Propiconazole	NT		
Pyrethrins	NT		
Pyridaben	NT		
Spinetoram	NT		
Spinosad	NT		
Spiromesifen	NT		
Spirotetramat	NT		
Tebuconazole	NT		
Thiamethoxam	NT		
Trifloxystrobin	NT		

Pesticide Test Results

Pesticide, Fungicide and plant growth regulator analysis utilizing HPLC-Mass Spectrometry and GC-Mass Spectrometry

	Results (µg/g)	Action Limit µg/g	LOD / LOQ µg/g
Aldicarb	NT		
Carbofuran	NT		
Chlordane	NT		
Chlorfenapyr	NT		
Chlorpyrifos	NT		
Coumaphos	NT		
Daminozide	NT		
DDVP (Dichlorvos)	NT		
Dimethoate	NT		
Ethoprop(hos)	NT		
Etofenprox	NT		
Fenoxycarb	NT		
Fipronil	NT		
Imazalil	NT		
Methiocarb	NT		
Methyl parathion	NT		
Mevinphos	NT		
Paclobutrazol	NT		
Propoxur	NT		
Spiroxamine	NT		
Thiacloprid	NT		

Mycotoxin Test Results

Mycotoxin analysis utilizing HPLC-Mass Spectrometry

	Results (µg/kg)	Action Limit µg/kg	LOD / LOQ µg/kg
Aflatoxin B1, B2, G1, G2	NT		
Ochratoxin A	NT		

Sample Certification

California Code of Regulations Title 16 Effect Date January 16, 2019
Authority: Section 26013, Business and Professions Code.
Reference: Sections 26100, 26104 and 26110, Business and Professions Code.

Scan to verify at sclabs.com
Sample must be marked as public to be viewable

Josh Wurzer, President
Date: 12/21/2019

HEMP LABORATORY TEST
CERTIFICATE OF ANALYSIS

SC Laboratories, LLC
100 Pioneer Street, Suite E
Santa Cruz, CA 95060
(866) 435-0709 | sclabs.com

Sample Name:	Hemp Muscle & Joint Balm
LIMS Sample ID:	191220R003
Batch #:	
Source Metrc ID(s):	
Sample Type:	Infused, Topical
Batch Count:	
Sample Count:	
Unit Mass:	100 Grams per Unit
Serving Mass:	
Density:	

Date Collected:	12/20/2019
Date Received:	12/20/2019
Tested for:	LCF Labs
License #:	
Address:	
Produced by:	
License #:	
Address:	

Residual Solvent Test Results

Residual Solvent analysis utilizing Gas Chromatography - Mass Spectrometry (GC - MS)

	Results (µg/g)	Action Limit µg/g	LOD / LOQ µg/g
1,2-Dichloroethane	NT		
Benzene	NT		
Chloroform	NT		
Ethylene Oxide	NT		
Methylene chloride	NT		
Trichloroethylene	NT		
Acetone	NT		
Acetonitrile	NT		
Butane	NT		
Ethanol	NT		
Ethyl acetate	NT		
Ethyl ether	NT		
Heptane	NT		
Hexane	NT		
Isopropyl Alcohol	NT		
Methanol	NT		
Pentane	NT		
Propane	NT		
Toluene	NT		
Total Xylenes	NT		

Microbiological Test Results

PCR and fluorescence detection of microbiological impurities

	Results	Action Limit
Shiga toxin-producing Escherichia coli	NT	
Salmonella spp.	NT	
Aspergillus fumigatus	NT	
Aspergillus flavus	NT	
Aspergillus niger	NT	
Aspergillus terreus	NT	

3M Petrifilm and plate counts for microbiological contamination

	Results (cfu/g)
Aerobic Plate Count	NT
Total Yeast and Mold	NT

Foreign Material Test Results

NT

Water Activity Test Results

	Results (Aw)	Action Limit Aw
Water Activity	NT	

Heavy Metal Test Results

Heavy metal analysis utilizing Inductively Coupled Plasma Mass Spectrometry (ICP-MS)

	Results (µg/g)	Action Limit µg/g	LOD / LOQ µg/g
Cadmium	NT		
Lead	NT		
Arsenic	NT		
Mercury	NT		

Note

Sample Certification

California Code of Regulations Title 16 Effect Date January 16, 2019
Authority: Section 26013, Business and Professions Code.
Reference: Sections 26100, 26104 and 26110, Business and Professions Code.

Scan to verify at sclabs.com
Sample must be marked as public to be viewable

Josh Wurzer, President
Date: 12/21/2019