

Sample Name: Orange Creamsicle
 LIMS Sample ID: 190920U015
 Batch #: 080819-ORGC-FLW1-2899
 Sample Metric ID: 1A406030000558D000001593
 Sample Type: Flower, Inhalable
 Batch Weight: 6842.04 Gram(s)
 Sample Weight: 25 Gram(s)
 Unit Mass:
 Serving Mass:
 Density:

Date Collected: 09/20/2019
 Date Received: 09/21/2019
 Tested for: ADIRA Distribution, Inc.
 License #: C11-0000739-LIC
 Address: 3440 AIRWAY DR, SUITE c, SANTA ROSA, CA 95403-2065
 Produced by: The Humboldt Leaf
 License #: CAL18-0002902
 Address: APN: 211-362-016 Unincorporated, Humboldt County, CA

Overall result for batch 080819-ORGC-FLW1-2899: Pass

Moisture Test Results
09/21/2019

	Results (%)
Moisture	12.2

Cannabinoid Test Results
09/23/2019

Cannabinoid analysis utilizing High Performance Liquid Chromatography (HPLC, QSP 5-4-4-4)
 Calculated using Dry-Weight

	mg/g	%	LOD / LOQ mg/g
Δ9THC	9.616	0.9616	0.052 / 0.158
Δ8THC	ND	ND	0.074 / 0.224
THCa	254.888	25.4888	0.052 / 0.156
THCV	ND	ND	0.045 / 0.137
THCVa	1.351	0.1351	0.088 / 0.267
CBD	ND	ND	0.059 / 0.180
CBDa	0.809	0.0809	0.052 / 0.156
CBDV	ND	ND	0.027 / 0.080
CBDVa	ND	ND	0.030 / 0.090
CBG	1.289	0.1289	0.048 / 0.144
CBGa	8.361	0.8361	0.034 / 0.102
CBL	ND	ND	0.114 / 0.346
CBN	ND	ND	0.052 / 0.157
CBC	ND	ND	0.048 / 0.146
CBCa	3.744	0.3744	0.233 / 0.705

Sum of Cannabinoids:	280.058	28.0058
Total THC (Δ9THC+0.877*THCa)	233.153	23.3153
Total CBD (CBD+0.877*CBDa)	0.709	0.0709

Action Limit mg

Δ9THC per Unit
 Δ9THC per Serving

Batch Photo

Water Activity Test Results - Pass
09/21/2019

	Results (Aw)	Action Limit Aw
Water Activity	0.4689	0.65

Terpene Test Results
09/24/2019

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

	mg/g	%	LOD / LOQ mg/g
Pinene	0.492	0.0492	0.028 / 0.084
Camphene	ND	ND	0.038 / 0.116
Sabinene	<LOQ	<LOQ	0.024 / 0.073
Pinene	0.780	0.0780	0.016 / 0.048
Myrcene	5.531	0.5531	0.03 / 0.092
Phellandrene	0.364	0.0364	0.048 / 0.144
3 Carene	0.305	0.0305	0.028 / 0.085
Terpinene	<LOQ	<LOQ	0.051 / 0.155
Limonene	1.87	0.187	0.04 / 0.12
Eucalyptol	ND	ND	0.051 / 0.155
Ocimene	<LOQ	<LOQ	0.053 / 0.16
Terpinene	0.115	0.0115	0.038 / 0.114
Sabinene Hydrate	ND	ND	0.046 / 0.138
Fenchone	ND	ND	0.06 / 0.181
Terpinolene	8.104	0.8104	0.042 / 0.128
Linalool	<LOQ	<LOQ	0.043 / 0.13
Fenchol	0.155	0.0155	0.051 / 0.153
(-)-Isopulegol	ND	ND	0.026 / 0.08
Camphor	ND	ND	0.08 / 0.242
Isoborneol	ND	ND	0.028 / 0.085
Borneol	ND	ND	0.063 / 0.19
Menthol	ND	ND	0.043 / 0.129
Terpineol	0.268	0.0268	0.029 / 0.087
Nerol	ND	ND	0.042 / 0.128
R-(+)-Pulegone	ND	ND	0.016 / 0.047
Geraniol	<LOQ	<LOQ	0.037 / 0.112
Geranyl Acetate	ND	ND	0.025 / 0.076
Cedrene	0.109	0.0109	0.012 / 0.035
Caryophyllene	4.236	0.4236	0.029 / 0.087
Humulene	1.015	0.1015	0.017 / 0.051
Valencene	0.061	0.0061	0.018 / 0.055
Nerolidol	0.16	0.016	0.05 / 0.15
Caryophyllene Oxide	0.095	0.0095	0.011 / 0.034
Guaiol	ND	ND	0.035 / 0.106
Cedrol	ND	ND	0.022 / 0.066
Bisabolol	0.691	0.0691	0.057 / 0.172

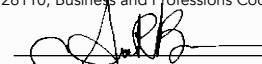
Total Terpene Concentration: 24.351 2.4351

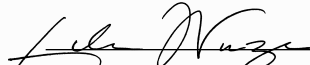
Sample Certification

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 Anna Brown, LQC Verified By
 Date: 09/25/2019


 Josh Wurzer, President
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Overall result for batch 080819-ORGC-FLW1-2899: Pass

Pesticide Test Results - Pass

09/24/2019

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	Pass ND	0.1	0.030 / 0.091
Acephate	Pass ND	0.1	0.013 / 0.039
Acequinocyl	Pass ND	0.1	0.010 / 0.031
Acetamiprid	Pass ND	0.1	0.013 / 0.038
Azoxystrobin	Pass ND	0.1	0.015 / 0.047
Bifenazate	Pass ND	0.1	0.012 / 0.035
Bifenthrin	Pass ND	3.0	0.013 / 0.038
Boscalid	Pass ND	0.1	0.008 / 0.023
Captan	Pass ND	0.7	0.099 / 0.300
Carbaryl	Pass ND	0.5	0.014 / 0.043
Chlorantraniliprole	Pass ND	10.0	0.020 / 0.061
Clofentezine	Pass ND	0.1	0.009 / 0.027
Cyfluthrin	Pass ND	2.0	0.099 / 0.299
Cypermethrin	Pass ND	1.0	0.030 / 0.091
Diazinon	Pass ND	0.1	0.009 / 0.027
Dimethomorph	Pass ND	2.0	0.018 / 0.055
Etoxazole	Pass ND	0.1	0.007 / 0.022
Fenhexamid	Pass ND	0.1	0.015 / 0.045
Fenpyroximate	Pass ND	0.1	0.012 / 0.036
Fonicamid	Pass ND	0.1	0.022 / 0.066
Fludioxonil	Pass ND	0.1	0.020 / 0.061
Hexythiazox	Pass ND	0.1	0.009 / 0.027
Imidacloprid	Pass ND	5.0	0.017 / 0.050
Kresoxim-methyl	Pass ND	0.1	0.010 / 0.029
Malathion	Pass ND	0.5	0.006 / 0.019
Metalaxyl	Pass ND	2.0	0.011 / 0.033
Methomyl	Pass ND	1.0	0.022 / 0.067
Myclobutanil	Pass ND	0.1	0.015 / 0.044
Naled	Pass ND	0.1	0.010 / 0.031
Oxamyl	Pass ND	0.5	0.014 / 0.042
Pentachloronitrobenzene	Pass ND	0.1	0.020 / 0.061
Permethrin	Pass ND	0.5	0.027 / 0.082
Phosmet	Pass ND	0.1	0.010 / 0.030
Piperonylbutoxide	Pass ND	3.0	0.007 / 0.020
Prallethrin	Pass ND	0.1	0.011 / 0.032
Propiconazole	Pass ND	0.1	0.004 / 0.013
Pyrethrins	Pass ND	0.5	0.012 / 0.036
Pyridaben	Pass ND	0.1	0.007 / 0.020
Spinetoram	Pass ND	0.1	0.006 / 0.017
Spinosad	Pass ND	0.1	0.010 / 0.031
Spiromesifen	Pass ND	0.1	0.005 / 0.015
Spirotetramat	Pass ND	0.1	0.014 / 0.042
Tebuconazole	Pass ND	0.1	0.006 / 0.018
Thiamethoxam	Pass ND	5.0	0.011 / 0.033
Trifloxystrobin	Pass ND	0.1	0.007 / 0.020

Mycotoxin Test Results - Pass

09/23/2019

Mycotoxin analysis utilizing HPLC-Mass Spectrometry

	Results (µg/kg)	Action Limit µg/kg	LOD / LOQ µg/kg
Aflatoxin B1	Pass ND	20.0	1.0 / 3.0
Aflatoxin B2	Pass ND	20.0	2.0 / 6.0
Aflatoxin G1	Pass ND	20.0	1.0 / 3.0
Aflatoxin G2	Pass ND	20.0	2.0 / 6.0
Aflatoxin B1, B2, G1, G2	Pass ND	20.0	
Ochratoxin A	Pass ND	20.0	6.0 / 18.0

Pesticide Test Results - Pass

09/24/2019

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	Pass ND	ND	0.030 / 0.091
Carbofuran	Pass ND	ND	0.029 / 0.089
Chlordane	Pass ND	ND	0.032 / 0.097
Chlorfenapyr	Pass ND	ND	0.030 / 0.090
Chlorpyrifos	Pass ND	ND	0.029 / 0.089
Coumaphos	Pass ND	ND	0.029 / 0.089
Daminozide	Pass ND	ND	0.030 / 0.091
DDVP (Dichlorvos)	Pass ND	ND	0.029 / 0.089
Dimethoate	Pass ND	ND	0.029 / 0.089
Ethoprop(hos)	Pass ND	ND	0.029 / 0.089
Etofenprox	Pass ND	ND	0.029 / 0.089
Fenoxycarb	Pass ND	ND	0.029 / 0.089
Fipronil	Pass ND	ND	0.029 / 0.089
Imazalil	Pass ND	ND	0.029 / 0.089
Methiocarb	Pass ND	ND	0.029 / 0.089
Methyl parathion	Pass ND	ND	0.029 / 0.089
Mevinphos	Pass ND	ND	0.029 / 0.089
Pacllobutrazol	Pass ND	ND	0.029 / 0.089
Propoxur	Pass ND	ND	0.029 / 0.089
Spiroxamine	Pass ND	ND	0.029 / 0.089
Thiacloprid	Pass ND	ND	0.029 / 0.089

Heavy Metal Test Results - Pass

09/23/2019

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


	Results (µg/g)	Action Limit µg/g	LOD / LOQ µg/g
Cadmium	Pass 0.053	0.2	0.012 / 0.035
Lead	Pass ND	0.5	0.031 / 0.095
Arsenic	Pass 0.072	0.2	0.013 / 0.039
Mercury	Pass <LOQ	0.1	0.002 / 0.005

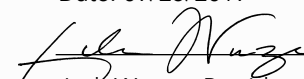
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Overall result for batch 080819-ORG-FLW1-2899: Pass

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		

Note

Microbiological Test Results - Pass

09/23/2019

PCR and fluorescence detection of microbiological impurities

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

Foreign Material Test Results - Pass

09/21/2019

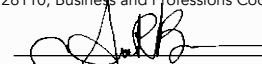
Pass

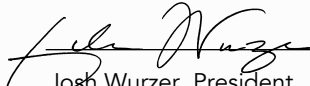
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