



SONOMA LABWORKS

Regulatory Compliance Testing
 Sonoma Lab Works
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License: C8-17-0000012-TEMP

Certificate of Analysis Vs.1.1
Revision: 1/22/19 DC

Distributor:	<i>Sonoma Pacific Distribution Inc</i>	Manufacturer:	<i>The Oil Plant, Inc.</i>
Distributor Address:	<i>3414 Standish Ave, Santa Rosa, CA 95407</i>	Manufacturer Address:	<i>3416 Standish Ave. Suite #102 Santa Rosa, CA 95407</i>
Distributor License #:	<i>M11-18-0000125-TEMP</i>	Manufacturer License #:	<i>CDPH-T00000488</i>
Date Collected:	<i>2/5/2019</i>	Batch #	<i>Top-CBD-0960</i>
Date Received:	<i>2/5/2019</i>	Dates of Analysis:	<i>2/6/2019 - 2/14/2019</i>

Sample Code:	<i>ST5010201</i>
Sample Type:	<i>Other Cannabis or Cannabis Product</i>
Sample Matrix:	<i>Extract (Non Medical)</i>
Sample Name:	<i>CBD Extra Strength Oil</i>
Total Batch Unit Count:	<i>370</i>
Primary Sample Unit Count:	<i>7</i>

Test Summary		
Overall Batch Result	PASS	
Total Δ9-THC (mg) per package	57.11	PASS
Total CBD (mg) per package	819.91	
Total Cannabinoids (mg) per package	981.10	
Residual Solvents (Detect/No Detect)	ND	PASS
Microbial Result (Pass/Fail)	Pass	PASS
Pesticide Screen (Detect/No Detect)	ND	PASS
Heavy Metals Screen (Detect/No Detect)	NT	NT
Mycotoxin Screen (Detect/No Detect)	NT	NT
Total Terpenes (%)	NT	NT
Percent Moisture (%)	NT	NT
Water Activity (A_w)	NT	NT
Foreign Material (Present/Absent)	No Foreign Material	PASS



Sample Information	
Density (g/ml)	0.88
Average weight per package (g)	N/A

Ivy Compagno
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 Laboratory Supervisor
 ivy@sonomalabworks.com

2/14/19
 Date

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Certificate of Analysis

V8.1.1
Revision: 1/22/19 DC

Regulatory Compliance Testing

Potency Test Result			California Limit	
SOP: [SLW-CC] Method: HPLC-DAD American Herbal Pharmacopoeia			Extract (Non Medical)	
Target Analyte	% Test	mg/ml	mg/pack	Pass/Fail
CBDA	0.07	0.60	N/A	N/A
CBGA	ND	ND	N/A	N/A
CBG	0.13	1.14	N/A	N/A
CBD	3.12	27.33	N/A	N/A
THCV	ND	ND	N/A	N/A
CBN	ND	ND	N/A	N/A
THCA	0.04	0.34	1000	Pass
Delta 9-THC (Δ9-THC)	0.22	1.90		
Delta 8-THC (Δ8-THC)	ND	ND	N/A	N/A
CBC	0.16	1.39	N/A	N/A

Residual Solvent Screen - Category I					California Limit - All products
SOP: [SLW-RS] Method: GC/FID USP <607>					Pass/Fail
Target Analyte	PPM	LOD (µg/g)	LOQ (µg/g)		
1,2-Dichloroethane	ND	1.00	1.00		Pass
Benzene	ND	1.00	1.00		Pass
Chloroform	ND	1.00	1.00		Pass
Ethylene oxide	ND	1.00	1.00		Pass
Methylene chloride	ND	1.00	1.00		Pass
Trichloroethylene	ND	1.00	1.00		Pass

Residual Solvent Screen - Category 2					California Limit - Cannabis Product
SOP: [SLW-RS] Method: GC/FID USP <607>					Pass/Fail
Target Analyte	PPM	LOD (µg/g)	LOQ (µg/g)		
Acetone	ND	100.00	500.00	5000	Pass
Acetonitrile	ND	5.00	41.00	410	Pass
Butane	ND	100	1000	5000	Pass
Ethanol	ND	1.00	10.00	5000	Pass
Ethyl acetate	ND	100.00	500.00	5000	Pass
Ethyl ether	ND	100.00	500.00	5000	Pass
Heptane	ND	100.00	500.00	5000	Pass
Hexane	ND	1.00	29.00	290	Pass
Isopropyl Alcohol	ND	1.00	10.00	5000	Pass
Methanol	ND	100.00	300.00	3000	Pass
Pentane	ND	100.00	300.00	5000	Pass
Propane	ND	500	5000	5000	Pass
Toluene	ND	100.00	100.00	890	Pass
Total Xylenes	ND	1.00	10.00	2170	Pass

Microbial Screen				California Limit	
SOP: [SLW-MIS] qPCR PathoSER™				Pass/Fail	
Microbiological Assay		Threshold			
Salmonella	ND	Detect/1 gram			Pass
Escherichia coli (STEC)	ND	Detect/1 gram			Pass
Aspergillus niger	ND	Detect/1 gram			Pass
Aspergillus fumigatus	ND	Detect/1 gram			Pass
Aspergillus flavus	ND	Detect/1 gram			Pass
Aspergillus terreus	ND	Detect/1 gram			Pass
Total Yeast and Mold*	NT	10000 CFU/g			NT
Total Aerobic Bacteria*	NT	100000 CFU/g			NT
Total Enterobacteriaceae*	NT	1000 CFU/g			NT
Total Coliform Bacteria*	NT	1000 CFU/g			NT
Escherichia coli (Non-STEC)*	NT	Detect/1 gram			NT

Heavy Metals Screen					California Limit - Other Cannabis
SOP: [SLW-HMS] Method: ICP-MS					Pass/Fail
Target Analyte	PPM	LOD (µg/g)	LOQ (µg/g)		
Cadmium	NT	0.05	0.10	0.5	NT
Lead	NT	0.05	0.10	0.5	NT
Arsenic	NT	0.05	0.10	1.5	NT
Mercury	NT	0.05	0.10	3.0	NT

Terpene Test Result		
SOP: [SLW-TA] GC/FID		
Target Analyte	% Test	mg/ml
alpha-Bisabolol	NT	NT
Camphene	NT	NT
delta-3-Carene	NT	NT
beta-Caryophyllene	NT	NT
Carvophyllene Oxide	NT	NT
p-Cymene	NT	NT
Geraniol	NT	NT
Guaiol	NT	NT
alpha-Humulene	NT	NT
Isopulegol	NT	NT
delta-Limonene	NT	NT
Linalool	NT	NT
beta-Myrcene	NT	NT
Nerolidol 1	NT	NT
Nerolidol 2	NT	NT
beta-Ocimene	NT	NT
alpha-Ocimene	NT	NT
alpha-Pinene	NT	NT
beta-Pinene	NT	NT
alpha-Terpinene	NT	NT
Gamma-Terpinene	NT	NT
Terpinolene	NT	NT



ND = None Detected, NT = Not Tested, N/A = Not Applicable, <LOQ = Less than Limit of Quantitation, LOD = Limit of Detection

*All cannabinoid results calculated in accordance with § 5724, of CA Code of Regulations Title 16

All test results have accompanying LQC samples that adhere to section 5730 of CA Code of Regulations Title 16

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Manufacturer:	The Oil Plant, Inc.
Manufacturer Address:	3416 Standish Ave. Suite #102 Santa Rosa, CA 95407
Manufacturer License #:	CDPH-T00000488
Batch #	Top-CBD-0960
Sample Code:	ST5010201
Dates of Analysis:	2/6/19 - 2/14/19
Sample Name:	CBD Extra Strength Oil

		California Limit	
Percent Moisture (%)	NT	13%	NT
Water Activity (A _w)	NT	0.85Aw	NT
Foreign Material	No Foreign Material	1/4 total sample area	PASS

Pesticide Screen Result - Category 1					California Limit - All products
SOP: [SLW-PA] Method: LC/MSMS ES+ Dion & Shoot/GCMSMS QIC/EHR					Pass/Fail
Target Analyte	PPM	LOD (µg/g)	LOQ (µg/g)		
Aldicarb	ND	1.0 E-3	5.0 E-2		Pass
Carbofuran	ND	1.0 E-3	5.0 E-2		Pass
Chlordane	ND	1.0 E-3	5.0 E-2		Pass
Chlorfenapyr	ND	1.0 E-1	1.0 E-1		Pass
Chlorpyrifos	ND	1.0 E-3	5.0 E-2		Pass
Coumaphos	ND	1.0 E-3	5.0 E-2		Pass
Daminozide	ND	1.0 E-3	5.0 E-2		Pass
Dichlorvos	ND	1.0 E-3	5.0 E-2		Pass
Dimethoate	ND	1.0 E-3	5.0 E-2		Pass
Ethoprop(hos)	ND	1.0 E-3	5.0 E-2		Pass
Etofenprox	ND	1.0 E-3	5.0 E-2		Pass
Fenoxycarb	ND	1.0 E-3	5.0 E-2		Pass
Fipronil	ND	1.0 E-3	5.0 E-2		Pass
Imazalil	ND	1.0 E-3	5.0 E-2		Pass
Methiocarb	ND	1.0 E-3	5.0 E-2		Pass
Methyl Parathion	ND	2.0 E-3	1.0 E-1		Pass
Mevinphos	ND	1.0 E-3	5.0 E-2		Pass
Paclobutrazol	ND	1.0 E-3	5.0 E-2		Pass
Propoxur	ND	1.0 E-3	5.0 E-2		Pass
Spiroxamine	ND	1.0 E-3	5.0 E-2		Pass
Thiacloprid	ND	1.0 E-3	5.0 E-2		Pass

Pesticide Screen Result - Category 2					California Limit - Other Cannabis
SOP: [SLW-PA] Method: LC/MSMS ES+ Dion & Shoot/GCMSMS QIC/EHR					Pass/Fail
Target Analyte	PPM (µg/g)	LOD (µg/g)	LOQ (µg/g)		
Acephate	ND	1.0 E-3	5.0 E-2	5.0	Pass
Acequinocyl	ND	1.0 E-3	5.0 E-2	4.0	Pass
Acetamiprid	ND	1.0 E-3	5.0 E-2	5.0	Pass
Avermectin B1a (Abamectin)	ND	1.0 E-3	5.0 E-2	0.3	Pass
Avermectin B1b (Abamectin)	ND	1.0 E-3	5.0 E-1	0.3	Pass
Azoxystrobin	ND	1.0 E-3	5.0 E-2	40.0	Pass
Bifenazate	ND	1.0 E-3	5.0 E-2	5.0	Pass
Bifenthrin	ND	1.0 E-3	5.0 E-2	0.5	Pass
Boscalid	ND	1.0 E-3	5.0 E-2	10.0	Pass
Captan	ND	2.5 E-1	1.0 E-1	5.0	Pass
Carbaryl	ND	1.0 E-3	5.0 E-2	0.5	Pass
Chlorantraniliprole	ND	1.0 E-3	5.0 E-2	40.0	Pass
Clofentezine	ND	1.0 E-3	5.0 E-2	0.5	Pass
Cyfluthrin	ND	2.0 E-3	1.0 E-1	1.0	Pass
Cypermethrin	ND	1.0 E-3	5.0 E-2	1.0	Pass
Diazinon	ND	1.0 E-3	5.0 E-2	0.2	Pass
Dimethomorph	ND	1.0 E-3	5.0 E-2	20.0	Pass
Etoxazole	ND	1.0 E-3	5.0 E-2	1.5	Pass
Fenhexamid	ND	1.0 E-3	5.0 E-2	10.0	Pass
Fenpyroximate	ND	1.0 E-3	5.0 E-2	2.0	Pass
Flonicamid	ND	1.0 E-3	5.0 E-2	2.0	Pass
Fludioxonil	ND	1.0 E-3	5.0 E-2	30.0	Pass
Hexythiazox	ND	1.0 E-3	5.0 E-2	2.0	Pass
Imidacloprid	ND	1.0 E-3	5.0 E-2	3.0	Pass
Kresoxim-methyl	ND	1.0 E-3	5.0 E-2	1.0	Pass
Malathion	ND	1.0 E-3	5.0 E-2	5.0	Pass
Metaxyl	ND	1.0 E-3	5.0 E-2	15.0	Pass
Methomyl	ND	1.0 E-3	5.0 E-2	0.1	Pass
Myclobutanil	ND	1.0 E-3	5.0 E-2	9.0	Pass
Naled	ND	1.0 E-3	5.0 E-2	0.5	Pass
Oxamyl	ND	1.0 E-3	5.0 E-2	0.2	Pass
Pentachloronitrobenzene	ND	1.0 E-3	5.0 E-2	0.2	Pass
Permethrin, Cis-	ND	1.0 E-3	5.0 E-2	20.0	Pass
Permethrin, Trans-	ND	1.0 E-3	5.0 E-2	20.0	Pass
Phosmet	ND	1.0 E-3	5.0 E-2	0.2	Pass
Piperonyl butoxide	ND	1.0 E-3	5.0 E-2	8.0	Pass
Prallethrin	ND	1.0 E-3	5.0 E-2	0.4	Pass
Propiconazole	ND	1.0 E-3	5.0 E-2	20.0	Pass
Pyrethrins	ND	1.0 E-3	5.0 E-2	1.0	Pass
Pyridaben	ND	1.0 E-3	5.0 E-2	3.0	Pass
Spinetoram	ND	1.0 E-3	5.0 E-2	3.0	Pass
Spinosyn A (Spinosad)	ND	1.0 E-3	5.0 E-2	3.0	Pass
Spinosyn D (Spinosad)	ND	1.0 E-2	5.0 E-1	3.0	Pass
Spiromesifen	ND	1.0 E-3	5.0 E-2	12.0	Pass
Spirotetramat	ND	1.0 E-3	5.0 E-2	13.0	Pass
Tebuconazole	ND	1.0 E-3	5.0 E-2	2.0	Pass
Thiamethoxam	ND	1.0 E-3	5.0 E-2	4.5	Pass
Trifloxystrobin	ND	1.0 E-3	5.0 E-2	30.0	Pass

Mycotoxin Screen					California Limit
SOP: [SLW-MAC] Method: LC/MSMS ES+ Dion & Shoot					Pass/Fail
Target Analyte	PPM	LOD (µg/g)	LOQ (µg/g)		
Aflatoxin Total	NT	1.0E-03	2.0E-02	0.02	NT
Dehrazoxin A	NT	1.0E-03	2.0E-02	0.02	NT