



**SONOMA LABWORKS**

Regulatory Compliance Testing  
 Sonoma Lab Works  
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License: C8-17-000012-TEMP

**Certificate of Analysis** Vs.1.0  
Revision: 12/10/18 DC

<b>Distributor:</b>	<i>Sonoma Pacific Distribution Inc</i>	<b>Manufacturer:</b>	<i>The Oil Plant, Inc.</i>
<b>Distributor Address:</b>	<i>3414 Standish Ave, Santa Rosa, CA 95407</i>	<b>Manufacturer Address:</b>	<i>3416 Standish Ave. Suite #102 Santa Rosa, CA 95407</i>
<b>Distributor License #:</b>	<i>M11-18-0000125-TEMP</i>	<b>Manufacturer License #:</b>	<i>CDPH-T00000488</i>
<b>Date Collected:</b>	<i>1/9/2019</i>	<b>Batch #</b>	<i>TOP-CBD-0953</i>
<b>Date Received:</b>	<i>1/9/2018</i>	<b>Dates of Analysis:</b>	<i>1/10/2019 - 1/19/2019</i>

<b>Sample Code:</b>	<i>ST4747501</i>
<b>Sample Type:</b>	<i>Other Cannabis or Cannabis Product</i>
<b>Sample Matrix:</b>	<i>Edible (Non Medical)</i>
<b>Sample Name:</b>	<i>CBD Olive Oil</i>
<b>Total Batch Unit Count:</b>	<i>627</i>
<b>Primary Sample Unit Count:</b>	<i>8</i>

Test Summary		
<b>Overall Batch Result</b>	PASS	
<b>Total Δ9-THC (mg) per ml</b>	1.05	PASS
<b>Total CBD (mg) per ml</b>	12.67	
<b>Total Cannabinoids (mg) per ml</b>	15.06	
<b>Residual Solvents (Detect/No Detect)</b>	ND	PASS
<b>Microbial Result (Pass/Fail)</b>	Pass	PASS
<b>Pesticide Screen (Detect/No Detect)</b>	ND	PASS
<b>Heavy Metals Screen (Detect/No Detect)</b>	NT	NT
<b>Mycotoxin Screen (Detect/No Detect)</b>	NT	NT
<b>Total Terpenes (%)</b>	NT	NT
<b>Percent Moisture (%)</b>	NT	NT
<b>Water Activity (A<sub>w</sub>)</b>	NT	NT
<b>Foreign Material (Present/Absent)</b>	No Foreign Material	PASS

Sample Information	
<b>Density (g/ml)</b>	0.93
<b>Average weight per package (g)</b>	N/A

*Ivy Compagno*  
 Ivy Compagno  
 Laboratory Supervisor  
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**1/19/19**  
 Date

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# Certificate of Analysis

V8.1.0  
Revision: 12/10/18 DC

## Regulatory Compliance Testing

Potency Test Result				California Limit	
SOP: [SLW-CC] Method: HPLC-DAD American Herbal Pharmacopoeia				Edible (Non Medical)	
Target Analyte	% Test	mg/ml	mg/serve	Pass/Fail	
CBDA	0.02	0.15	N/A	N/A	
CBGA	ND	ND	N/A	N/A	
CBG	0.05	0.50	N/A	N/A	
CBD	1.36	12.67	N/A	N/A	
THCV	ND	ND	N/A	N/A	
CBN	ND	ND	N/A	N/A	
THCA	ND	ND	N/A	N/A	
Delta 9-THC (A9-THC)	0.11	1.05	500	PASS	
Delta 8-THC (A8-THC)	ND	ND	N/A	N/A	
CBC	0.07	0.69	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)	Pass/Fail	
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)	PPM (µg/g)	Pass/Fail
Acetone	<LOQ	1.00	500.00	5000	Pass
Acetonitrile	ND	1.00	41.00	410	Pass
Butane	ND	100	1000	5000	Pass
Ethanol	<LOQ	1.00	10.00	5000	Pass
Ethyl acetate	ND	1.00	500.00	5000	Pass
Ethyl ether	ND	1.00	500.00	5000	Pass
Heptane	ND	1.00	500.00	5000	Pass
Hexane	ND	1.00	29.00	290	Pass
Isopropyl Alcohol	ND	1.00	10.00	5000	Pass
Methanol	<LOQ	1.00	300.00	3000	Pass
Pentane	ND	1.00	500.00	5000	Pass
Propane	ND	500	5000	5000	Pass
Toluene	ND	1.00	100.00	890	Pass
Total Xylenes	ND	1.00	10.00	2170	Pass

Microbial Screen				California Limit	
SOP: [SLW-MSC] qPCR PathoSER®				Threshold	
Microbiological Assay	PPM	LOD (µg/g)	LOQ (µg/g)	PPM (µg/g)	Pass/Fail
Salmonella	ND	1	1	1	Pass
Escherichia coli (STEC)	ND	1	1	1	Pass
Aspergillus niger	ND	1	1	1	Pass
Aspergillus fumigatus	ND	1	1	1	Pass
Aspergillus flavus	ND	1	1	1	Pass
Aspergillus terreus	ND	1	1	1	Pass
Total Yeast and Mold*	NT	10000	CFU/g	NT	NT
Total Aerobic Bacteria*	NT	100000	CFU/g	NT	NT
Total Enterobacteriaceae*	NT	1000	CFU/g	NT	NT
Total Coliform Bacteria*	NT	1000	CFU/g	NT	NT
Escherichia coli (Non-STEC)*	NT	1	1	1	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)	PPM (µg/g)	Pass/Fail
Cadmium	NT	0.01	0.10	0.5	NT
Lead	NT	0.01	0.10	0.5	NT
Arsenic	NT	0.01	0.10	1.5	NT
Mercury	NT	0.01	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
Caryophyllene 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

Manufacturer:	The Oil Plant, Inc.
Manufacturer Address:	3416 Standish Ave. Suite #102 Santa Rosa, CA 95407
Manufacturer License #:	CDPH-T00000488
Batch #	TOP-CBD-0953
Sample Code:	ST4747501
Dates of Analysis:	1/10/19 - 1/19/19
Sample Name:	CBD Olive Oil

Percent Moisture (%)				California Limit	
SOP: [SLW-MCWA] Moisture				13%	NT
Water Activity (A <sub>w</sub> )	NT			0.85Aw	NT
Foreign Material				1/4 total sample area	PASS
SOP: [SLW-FM]				No Foreign Material	

Pesticide Screen Result - Category 1					California Limit - All products
SOP: [SLW-PA] Method: LC/MSMS ES+ Dilute & Shoot/GCMSMS Q/EXE/ER					Pass/Fail
Target Analyte	PPM	LOD (µg/g)	LOQ (µg/g)	Pass/Fail	
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+ Dilute & Shoot/GCMSMS Q/EXE/ER					Pass/Fail
Target Analyte	PPM	LOD (µg/g)	LOQ (µg/g)	PPM (µg/g)	Pass/Fail
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+ Dilute & Shoot					Pass/Fail
Target Analyte	PPM	LOD (µg/g)	LOQ (µg/g)	PPM (µg/g)	Pass/Fail
Aflatoxin Total	NT	1.0E-03	2.0E-02	0.02	NT
Dehrazoxin A	NT	1.0E-03	2.0E-02	0.02	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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