



**SONOMA LABWORKS**

Regulatory Compliance Testing  
 Sonoma Lab Works  
 1201 Corporate Center Parkway  
 Santa Rosa, CA 95407  
 Phone: (707) 757-7757  
[www.sonomalabworks.com](http://www.sonomalabworks.com)

License: C8-17-0000012-TEMP

**Certificate of Analysis** Vs. 1.1  
Revision: 1/22/19 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>1/29/2019</i>	<b>Batch #</b>	<i>TOP-THC-0946</i>
<b>Date Received:</b>	<i>1/29/2019</i>	<b>Dates of Analysis:</b>	<i>1/30/2019 - 2/8/2019</i>

<b>Sample Code:</b>	<i>ST4949501</i>
<b>Sample Type:</b>	<i>Inhalable Cannabis or Cannabis Product</i>
<b>Sample Matrix:</b>	<i>Extract (Medical)</i>
<b>Sample Name:</b>	<i>2g THC Extract</i>
<b>Total Batch Unit Count:</b>	<i>271</i>
<b>Primary Sample Unit Count:</b>	<i>5</i>

Test Summary		
<b>Overall Batch Result</b>	PASS	
<b>Total Δ9-THC (mg) per package</b>	1338.54	PASS
<b>Total CBD (mg) per package</b>	39.94	
<b>Total Cannabinoids (mg) per package</b>	1472.27	
<b>Residual Solvents (Detect/No Detect)</b>	Detect	PASS
<b>Microbial Result (Pass/Fail)</b>	Pass	PASS
<b>Pesticide Screen (Detect/No Detect)</b>	Detect	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	
Density (g/ml)	N/A
Average weight per package (g)	N/A

*Ivy Compagno*  
 Ivy Compagno  
 Laboratory Supervisor  
 ivy@sonomalabworks.com

2/8/19  
 Date

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# Certificate of Analysis

V8.1.1  
Revision: 1/22/19 DC

Potency Test Result				California Limit
SOP: [SLW-GC] Method: HPLC-DAD American Herbal Pharmacopoeia				Extract (Medical)
Target Analyte	% Test	mg/g	mg/pack	Pass/Fail
CBDA	ND	ND	N/A	N/A
CBGA	ND	ND	N/A	N/A
CBG	2.41	24.13	N/A	N/A
CBD	2.00	19.97	N/A	N/A
THCV	ND	ND	N/A	N/A
CBN	0.97	9.69	N/A	N/A
THCA	ND	ND	2900	Pass
Delta 9-THC (Δ9-THC)	66.93	669.27		
Delta 8-THC (Δ8-THC)	ND	ND	N/A	N/A
CBC	1.31	13.07	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)	PPM (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	ND	100.00	500.00	5000	Pass	
Acetonitrile	ND	5.00	41.00	410	Pass	
Butane	ND	100	1000	5000	Pass	
Ethanol	1777	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-M5] qPCR PathoSER®				Threshold	
Microbiological Assay	Result	Threshold	Pass/Fail		
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 - Inhalable Cannabis
SOP: [SLW-HM5] Method: ICPMS						Pass/Fail
Target Analyte	PPM	LOD (µg/g)	LOQ (µg/g)	PPM (µg/g)	Pass/Fail	
Cadmium	NT	0.02	0.10	0.2	NT	
Lead	NT	0.02	0.10	0.5	NT	
Arsenic	NT	0.02	0.10	0.2	NT	
Mercury	NT	0.02	0.10	0.1	NT	

Terpene Test Result		
SOP: [SLW-TA] GC/FID		
Target Analyte	% Test	mg/g
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  
 Sonoma Lab Works LLC www.sonomalabworks.com 1201 Corporate Center Parkway Santa Rosa CA 95407

Manufacturer:	The Oil Plant, Inc.
Manufacturer Address:	3416 Standish Ave. Suite #102 Santa Rosa, CA 95407
Manufacturer License #:	CDPH-T00000488
Batch #	TOP-THC-0946
Sample Code:	ST4949501
Dates of Analysis:	1/30/19 - 2/8/19
Sample Name:	2g THC Extract

Percent Moisture (%)				California Limit
SOP: [SLW-MCWA] Moisture				13%
Water Activity (A <sub>w</sub> )	NT	0.65Aw	NT	
Foreign Material	No Foreign Material	1/4 total sample area	PASS	
SOP: [SLW-FM]				

Pesticide Screen Result - Category 1						California Limit - All products
SOP: [SLW-PA] Method: LC/MSMS ES+ Dion & Shoot/GCMSMS QuEChERS						Pass/Fail
Target Analyte	PPM	LOD (µg/g)	LOQ (µg/g)	PPM (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 - Inhalable Cannabis
SOP: [SLW-PA] Method: LC/MSMS ES+ Dion & Shoot/GCMSMS QuEChERS						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	0.1	Pass	
Acequinocyl	ND	1.0 E-3	5.0 E-2	0.1	Pass	
Acetamiprid	ND	1.0 E-3	5.0 E-2	0.1	Pass	
Avermectin B1a (Abamectin)	ND	1.0 E-3	5.0 E-2	0.1	Pass	
Avermectin B1b (Abamectin)	ND	1.0 E-3	5.0 E-1	0.1	Pass	
Azoxystrobin	ND	1.0 E-3	5.0 E-2	0.1	Pass	
Bifenazate	ND	1.0 E-3	5.0 E-2	0.1	Pass	
Bifenthrin	ND	1.0 E-3	5.0 E-2	3.0	Pass	
Boscalid	ND	1.0 E-3	5.0 E-2	0.1	Pass	
Captan	ND	2.5 E-1	7.0 E-1	0.7	Pass	
Carbaryl	ND	1.0 E-3	5.0 E-2	0.5	Pass	
Chlorantraniliprole	ND	1.0 E-3	5.0 E-2	10.0	Pass	
Clofentezine	ND	1.0 E-3	5.0 E-2	0.1	Pass	
Cyfluthrin	ND	2.0 E-3	1.0 E-1	2.0	Pass	
Cypermethrin	ND	1.0 E-3	5.0 E-2	1.0	Pass	
Diazinon	ND	1.0 E-3	5.0 E-2	0.1	Pass	
Dimethomorph	ND	1.0 E-3	5.0 E-2	2.0	Pass	
Etoxazole	ND	1.0 E-3	5.0 E-2	0.1	Pass	
Fenhexamid	ND	1.0 E-3	5.0 E-2	0.1	Pass	
Fenpyroximate	ND	1.0 E-3	5.0 E-2	0.1	Pass	
Flonicamid	ND	1.0 E-3	5.0 E-2	0.1	Pass	
Fludioxonil	ND	1.0 E-3	5.0 E-2	0.1	Pass	
Hexythiazox	ND	1.0 E-3	5.0 E-2	0.1	Pass	
Imidacloprid	ND	1.0 E-3	5.0 E-2	5.0	Pass	
Kresoxim-methyl	ND	1.0 E-3	5.0 E-2	0.1	Pass	
Malathion	ND	1.0 E-3	5.0 E-2	0.5	Pass	
Metalaxyl	ND	1.0 E-3	5.0 E-2	2.0	Pass	
Methomyl	ND	1.0 E-3	5.0 E-2	1.0	Pass	
Myclobutanil	ND	1.0 E-3	5.0 E-2	0.1	Pass	
Naled	ND	1.0 E-3	5.0 E-2	0.1	Pass	
Oxamyl	ND	1.0 E-3	5.0 E-2	0.5	Pass	
Pentachloronitrobenzene	ND	1.0 E-3	5.0 E-2	0.1	Pass	
Permethrin, Cis-	ND	1.0 E-3	5.0 E-2	0.5	Pass	
Permethrin, Trans-	ND	1.0 E-3	5.0 E-2	0.5	Pass	
Phosmet	ND	1.0 E-3	5.0 E-2	0.1	Pass	
Piperonyl butoxide	ND	1.0 E-3	5.0 E-2	3.0	Pass	
Prallethrin	ND	1.0 E-3	5.0 E-2	0.1	Pass	
Propiconazole	ND	1.0 E-3	5.0 E-2	0.1	Pass	
Pyrethrins	ND	1.0 E-3	5.0 E-2	0.5	Pass	
Pyridaben	ND	1.0 E-3	5.0 E-2	0.1	Pass	
Spinetoram	ND	1.0 E-3	5.0 E-2	0.1	Pass	
Spinosyn A (Spinosad)	0.1	1.0 E-3	5.0 E-2	0.1	Pass	
Spinosyn D (Spinosad)	ND	1.0 E-2	5.0 E-1	0.1	Pass	
Spiromesifen	ND	1.0 E-3	5.0 E-2	0.1	Pass	
Spirotetramat	ND	1.0 E-3	5.0 E-2	0.1	Pass	
Tebuconazole	ND	1.0 E-3	5.0 E-2	0.1	Pass	
Thiamethoxam	ND	1.0 E-3	5.0 E-2	5.0	Pass	
Trifloxystrobin	ND	1.0 E-3	5.0 E-2	0.1	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)	PPM (µg/g)	Pass/Fail	
Aflatoxin Total	NT	1.0E-03	2.0E-02	0.02	NT	
Dehydroxyl A	NT	1.0E-03	2.0E-02	0.02	NT	