

Regulatory Compliance Testing

Sonoma Lab Works
1201 Corporate Center Parkway
Santa Rosa, CA 95407
Phone: (707)757-7757
www.sonomalabworks.com



License: C8-0000015-LIC

Certificate of Analysis

Distributor:	ADIRA DISTRIBUTION, INC. - LEGION OF BLOOM	Client:	LOB Manufacturing, Inc.
Distributor Address:	3440 AIRWAY DR, #C, SANTA ROSA CA	Client Address:	3440 Airway Dr. Suite C, Santa Rosa CA
Distributor License #:	C11-0000739-LIC	Client License #:	CDPH-10002733
Date Collected:	07/30/2020	Batch #:	P-07272020-GFOG
Date Received:	7/30/2020	Dates of Analysis:	7/30/2020 - 7/31/2020

Sample Code:	20C002300
Sample Type:	Inhalable
Sample Matrix:	Extract
Sample Name:	Grapefruit OG
METRC Tag:	1A406030000232E000000691
Total Batch:	1904 Units
Primary Sample:	20 Units

Test Summary

Overall Batch Result	Pass	
Total Calculated d9-THC (%)	80.10	Pass
Total d9 THC (mg) per package	400.52	
Total Calculated CBD (%)	0.31	
Total CBD (mg) per package	1.54	
Total Cannabinoids (%)	87.79	
Residual Solvents (Detect/No Detect)	ND	Pass
Microbial Result (Pass/Fail)	ND	Pass
Pesticide Screen (Detect/No Detect)	ND	Pass
Heavy Metals Screen (Detect/No Detect)	ND	Pass
Mycotoxin Screen (Detect/No Detect)	ND	Pass
Total Terpenes (%)	1.54	Pass
Percent Moisture (%)	NT	NT
Water Activity (Aw)	NT	NT
Foreign Material (Present/Absent)	ND	Pass



Sample Information

Density (g/ml)	N/A
Average Weight per Package (g)	0.50

David Chen
Laboratory Director
david@sonomalabworks.com

7/31/2020

Date



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Regulatory Compliance Testing

Certificate of Analysis V8.2.2 Revision: 3/28/19 DC

Potency Test Result		Extract			
SOP: [BLW-CC] Method: HPLC		Date Tested: 7/31/2020			
Target Analyte	% Test	mg/g	LOD mg/g	LOQ mg/g	Pass/Fail
CBD	ND	ND	0.005	0.025	N/A
CBGA	ND	ND	0.005	0.025	N/A
CBG	3.28	32.76	0.005	0.025	N/A
CBD	0.31	3.09	0.005	0.025	N/A
THCV	0.66	6.60	0.005	0.025	N/A
CBN	1.20	12.04	0.005	0.025	N/A
THCA	ND	ND	0.005	0.025	Pass
Delta 9-THC (d9-THC)	80.10	801.05	0.005	0.025	Pass
Delta 8-THC (d8-THC)	ND	ND	0.005	0.025	N/A
CBC	2.23	22.33	0.005	0.025	N/A

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

Residual Solvent Screen - Category 1				California Limit - All Products
SOP: [BLW-RS] Method: GCMS				Date Tested: 7/31/2020
Target Analyte	PPM (ug/g)	LOD (ug/g)	LOQ (ug/g)	Pass/Fail
1,2-Dichloroethane	ND	1.0	1.0	Pass
Benzene	ND	1.0	1.0	Pass
Chloroform	ND	1.0	1.0	Pass
Ethylene oxide	ND	1.0	1.0	Pass
Methylene chloride	ND	1.0	1.0	Pass
Trichloroethylene	ND	1.0	1.0	Pass

Residual Solvent Screen - Category 2					California Limit - Cannabis Product
SOP: [BLW-RS] Method: GCMS					Date Tested: 7/31/2020
Target Analyte	PPM	LOD (ug/g)	LOQ (ug/g)	PPM (ug/g)	Pass/Fail
Acetone	ND	100.0	500.0	5000	Pass
Acetonitrile	ND	5.0	41.0	410	Pass
Butane	ND	100.0	1000.0	5000	Pass
Ethanol	ND	1.0	10.0	5000	Pass
Ethyl acetate	ND	100.0	500.0	5000	Pass
Ethyl ether	ND	100.0	500.0	5000	Pass
Heptane	ND	100.0	500.0	5000	Pass
Hexane	ND	1.0	29.0	290	Pass
Isopropyl Alcohol	ND	1.0	10.0	5000	Pass
Methanol	ND	100.0	300.0	3000	Pass
Pentane	ND	100.0	500.0	5000	Pass
Propane	ND	500.0	5000.0	5000	Pass
Toluene	ND	100.0	100.0	890	Pass
Total Xylenes	ND	1.0	10.0	2170	Pass

Microbial Screen		California Limit
SOP: [BLW-MC] qPCR PathoCHECK™		Date Tested: 7/31/2020
Microbiological Assay	Threshold	Pass/Fail
Salmonella	Detect/1 gram	Pass
Escherichia Coli (STEC)	Detect/1 gram	Pass
Aspergillus niger	Detect/1 gram	Pass
Aspergillus fumigatus	Detect/1 gram	Pass
Aspergillus flavus	Detect/1 gram	Pass
Aspergillus terreus	Detect/1 gram	Pass

Heavy Metals Screen				California Limit - Inhalable Cannabis	
SOP: [BLW-MM] Method: ICPMS				Date Tested: 7/30/2020	
Target Analyte	PPM	LOD (ug/g)	LOQ (ug/g)	PPM (ug/g)	Pass/Fail
Cadmium	ND	0.05	0.1	0.2	Pass
Lead	ND	0.05	0.1	0.5	Pass
Arsenic	ND	0.05	0.1	0.2	Pass
Mercury	ND	0.05	0.1	0.1	Pass

Mycotoxin Screen					California Limit
SOP: [BLW-MA] Method: LCMSMS					Date Tested: 7/31/2020
Target Analyte	PPB (ug/kg)	LOD (ug/kg)	LOQ (ug/kg)	PPB (ug/kg)	Pass/Fail
Aflatoxin B1	ND	1.0	4.0	20.00	Pass
Aflatoxin B2	ND	1.0	4.0	20.00	Pass
Aflatoxin G1	ND	1.0	4.0	20.00	Pass
Aflatoxin G2	ND	1.0	4.0	20.00	Pass
Total Aflatoxins	ND	4.0	16.0	20.00	Pass
Ochratoxin A	ND	1.0	4.0	20.00	Pass

Terpene Test Result				
SOP: [BLW-TA] GC/MS				
Date Tested: 7/31/2020				
Target Analyte	% Test	mg/g	LOD (mg/g)	LOQ (mg/g)
alpha-Bisabolol	<LOQ	<LOQ	0.02	0.10
Camphene	ND	ND	0.02	0.10
delta-3-Carene	0.04	0.37	0.02	0.10
beta-Caryophyllene	0.31	3.12	0.02	0.10
Caryophyllene Oxide	<LOQ	<LOQ	0.02	0.10
p-Cymene	0.03	0.31	0.02	0.10
Eucalyptol	0.06	0.60	0.02	0.10
Geraniol	ND	ND	0.02	0.10
Guaiol	ND	ND	0.02	0.10
alpha-Humulene	0.02	0.16	0.02	0.10
Isopulegol	ND	ND	0.02	0.10
delta-Limonene	0.08	0.78	0.02	0.10
Linalool	0.02	0.17	0.02	0.10
beta-Myrcene	0.08	0.77	0.02	0.10
Nerolidol 1	ND	ND	0.02	0.10
Nerolidol 2	ND	ND	0.02	0.10
beta-Ocimene	0.13	1.31	0.02	0.10
alpha-Ocimene	0.11	1.12	0.02	0.10
alpha-Pinene	0.08	0.76	0.02	0.10
beta-Pinene	ND	ND	0.02	0.10
alpha-Terpinene	ND	ND	0.02	0.10
Gamma-Terpinene	0.06	0.55	0.02	0.10
Terpinolene	0.52	5.17	0.02	0.10

Client:	LOB Manufacturing, Inc.
Client Address:	3440 Airway Dr. Suite C, Santa Rosa CA
Client License#::	CDPH-10002733
Batch #:	P-07272020-GFOG
Date of Analysis:	7/30/2020 - 7/31/2020
Sample Name:	Grapefruit OG

Percent Moisture (%)	N/A	California Limit
SOP: [BLW-MC] Method: Analyze	Date Tested:	N/A
Water Activity (Aw)	N/A	N/A
SOP: [BLW-MC] Method: Probe	Date Tested:	N/A
Foreign Material	ND	Pass
SOP: [BLW-FM] Visual Inspection	Date Tested: 7/30/2020	1/4 total sample area

Pesticide Screen Result - Category 1				California Limit - All Products
SOP: [BLW-PA] Method: LCMSMS ESI/GCMSMS				Date Tested: 7/31/2020
Target Analyte	PPM (ug/g)	LOD (ug/g)	LOQ (ug/g)	Pass/Fail
Aldicarb	ND	0.02	0.08	Pass
Carbofuran	ND	0.02	0.08	Pass
Chlordane	ND	0.05	0.10	Pass
Chlorfenapyr	ND	0.05	0.10	Pass
Chlorpyrifos	ND	0.02	0.08	Pass
Coumaphos	ND	0.02	0.08	Pass
Daminozide	ND	0.02	0.08	Pass
Dichlorvos	ND	0.02	0.08	Pass
Dimethoate	ND	0.02	0.08	Pass
Ethionprop(hos)	ND	0.02	0.08	Pass
Etofenprox	ND	0.02	0.08	Pass
Fenoxycarb	ND	0.02	0.08	Pass
Fipronil	ND	0.02	0.08	Pass
Imazalil	ND	0.02	0.08	Pass
Methiocarb	ND	0.02	0.08	Pass
Methyl Parathion	ND	0.05	0.10	Pass
Mevinphos	ND	0.02	0.08	Pass
Paclotrazol	ND	0.02	0.08	Pass
Propoxur	ND	0.02	0.08	Pass
Spiroxamine	ND	0.02	0.08	Pass
Thiacloprid	ND	0.02	0.08	Pass

Pesticide Screen Result - Category 2					California Limit - Inhalable Cannabis
SOP: [BLW-PA] Method: LCMSMS ESI/GCMSMS					Date Tested: 7/31/2020
Target Analyte	PPM (ug/g)	LOD (ug/g)	LOQ (ug/g)	PPM (ug/g)	Pass/Fail
Acephate	ND	0.02	0.08	0.1	Pass
Acequinocyl	ND	0.02	0.08	0.1	Pass
Acetamiprid	ND	0.02	0.08	0.1	Pass
Avermectin B1a (Abamectin)	ND	0.02	0.08	0.1	Pass
Avermectin B1b (Abamectin)	ND	0.10	0.20	0.1	Pass
Azoxystrobin	ND	0.02	0.08	0.1	Pass
Bifenazate	ND	0.02	0.08	0.1	Pass
Bifenthrin	ND	0.02	0.08	3.0	Pass
Boscalid	ND	0.02	0.08	0.1	Pass
Captan	ND	0.12	0.20	0.7	Pass
Carbaryl	ND	0.02	0.08	0.5	Pass
Chlorantraniliprole	ND	0.02	0.08	10.0	Pass
Cyflentazine	ND	0.02	0.08	0.1	Pass
Cyfluthrin	ND	0.02	0.10	2.0	Pass
Cypermethrin	ND	0.05	0.10	1.0	Pass
Diazinon	ND	0.02	0.08	0.1	Pass
Dimethomorph	ND	0.02	0.08	2.0	Pass
Etoxazole	ND	0.02	0.08	0.1	Pass
Fenhexamid	ND	0.02	0.08	0.1	Pass
Fenproyoximate	ND	0.02	0.08	0.1	Pass
Fonicamid	ND	0.02	0.08	0.1	Pass
Fludioxonil	ND	0.02	0.08	0.1	Pass
Hexythiazox	ND	0.02	0.08	0.1	Pass
Imidacloprid	ND	0.02	0.08	5.0	Pass
Kresoxim-methyl	ND	0.02	0.08	0.1	Pass
Malathion	ND	0.02	0.08	0.5	Pass
Metaxyl	ND	0.02	0.08	2.0	Pass
Methomyl	ND	0.02	0.08	1.0	Pass
Myclobutanil	ND	0.02	0.08	0.1	Pass
Naled	ND	0.02	0.08	0.1	Pass
Oxamyl	ND	0.02	0.08	0.5	Pass
Pentachloronitrobenzene	ND	0.05	0.10	0.1	Pass
Permethrin, CIS-	ND	0.02	0.08	0.5	Pass
Permethrin, Trans-	ND	0.02	0.08	0.5	Pass
Phosmet	ND	0.02	0.08	0.1	Pass
Piperonyl butoxide	ND	0.02	0.08	3.0	Pass
Prallethrin	ND	0.02	0.08	0.1	Pass
Propiconazole	ND	0.02	0.08	0.1	Pass
Pyrethrins	ND	0.02	0.08	0.5	Pass
Fyridaben	ND	0.02	0.08	0.1	Pass
Spinetoram	ND	0.02	0.08	0.1	Pass
Spinosyn A (Spinosad)	ND	0.02	0.08	0.1	Pass
Spinosyn D (Spinosad)	ND	0.08	0.16	0.1	Pass
Spiromesifen	ND	0.02	0.08	0.1	Pass
Spirotetramat	ND	0.02	0.08	0.1	Pass
Tebuconazole	ND	0.02	0.08	0.1	Pass
Thiamethoxam	ND	0.02	0.08	5.0	Pass
Trifloxystrobin	ND	0.02	0.08	0.1	Pass



All results have accompanying LQC samples adhering to section 5730 of CA Code of Regulations Title 16
 ND = None Detected, NT = Not Tested, N/A = Not Applicable,
 <LOQ = Less than Limit of Quantitation, LOD = Limit of Detection