

CERTIFICATE OF ANALYSIS



Juniper Analytics, LLC
 1334 NE 2nd Street, Bend, OR, 97701
 541.382.3796
 ORELAP: 4101-001 / OLCC: 10035537931

Client Name: Grander Distribution
 Contact Info: Brandon
 Sample Type: Cannabinoid
 External Batch ID: LMC-9031
 Harvest/Prod. Date: NA
 Sample ID: Lemon Cake 300mg
 METRC ID: Personal
 Juniper Batch #: **19JA0116.06**
 Intake Date: **2019-01-14**

NOT FOR COMPLIANCE



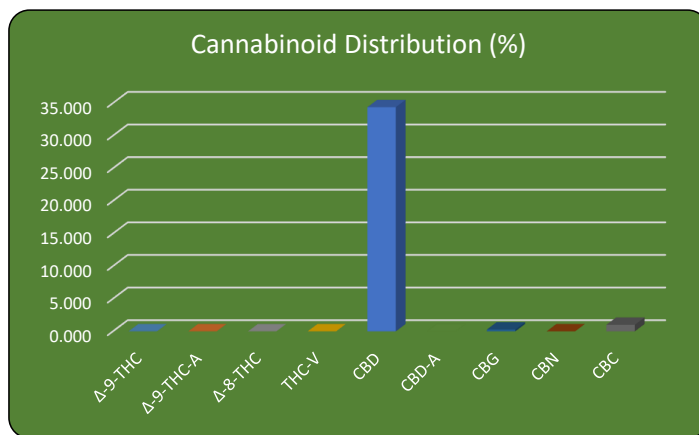
Potency Analysis (Oregon Compliance Standard OAR 333-007-0430)

ANALYSIS DATE: 2019-01-18

Instrument: HPLC/DAD

Method: JA-Potency-Proprietary

Compound	Weight (%)	Concentration (mg/g)	LOQ * (mg/g)
Δ-9-THC	< LOQ	< LOQ	2.00
Δ-9-THC-A	< LOQ	< LOQ	2.00
Δ-8-THC	< LOQ	< LOQ	2.00
THC-V	< LOQ	< LOQ	2.00
CBD	34.373	343.73	2.00
CBD-A	< LOQ	< LOQ	2.00
CBG	0.276	2.76	2.00
CBN	< LOQ	< LOQ	2.00
CBC	1.008	10.08	2.00



TOTAL THC/CBD	Weight (%)	Conc (mg/g)
THC Total =	<LOQ	<LOQ

THC_{Total} = (THC-A * 0.877) + Δ9THC

CBD Total =	34.373	343.73
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CBD_{Total} = (CBD-A * 0.877) + CBD

* < LOQ - Less than the Limit of Quantification

Residual Solvent Analysis (Oregon Compliance Standard OAR 333-007-0410)

Solvent	Result (ppm)	Action Level / LOQ (ppm)
1,4-Dioxane		380 / 100
2-Butanol		5000 / 500
2-Ethoxyethanol		160 / 100
2-Propanol (IPA)		5000 / 500
Acetone		5000 / 500
Acetonitrile		410 / 100
Benzene		2 / 1
Cumene		70 / 50
Cyclohexane		3880 / 500
Dichloromethane		600 / 100
Ethyl acetate		5000 / 500
Ethyl ether		5000 / 500
Ethylene glycol		620 / 300
Ethylene oxide		50 / 10
Heptane		5000 / 500
Isopropyl acetate		5000 / 500
Methanol		3000 / 500
Propane		5000 / 500
Tetrahydrofuran		720 / 100
Toluene		890 / 100

Instrument: GC/MS Method: USP 467 - Modified

Solvent	Result (ppm)	Action Level / LOQ (ppm)
Pentanes;		5000 / 500
-n-pentane		**
-iso-pentane		**
-neo-pentane		**
Butanes;		5000 / 500
-n-butane		**
-iso-butane		**
Hexanes;		290 / 50
-n-hexane		**
-2-methylpentane		**
-3-methylpentane		**
-2,2-dimethylbutane		**
-2,3-dimethylbutane		**
Xylenes;		2170 / 300
-1,2-dimethylbenzene		**
-1,3-dimethylbenzene		**
-1,4-dimethylbenzene		**
-Ethyl benzene		**

**Limit based on combined results

Residual Solvents N/A

Tentatively Identified Compounds: N/A

<LOQ - Less than the Limit of Quantification

APPROVAL

Steph M

Report Date: 2019-01-21

QA Review



Juniper Batch #:	19JA0116.06
Intake Date:	2019-01-14

Pesticide Analysis (Oregon Compliance Standard OAR 333-007-0400)

ANALYSIS DATE: Not Tested			Instrument: LC/MS/MS Method: AOAC 2007.1-Mod			
Pesticide	Result (ppm)	Action Level / LOQ (ppm)		Pesticide	Result (ppm)	Action Level / LOQ (ppm)
Abamectin		0.5 / 0.25		Imazalil		0.2 / 0.10
Acephate		0.4 / 0.20		Imidacloprid		0.4 / 0.20
Acequinocyl		2.0 / 1.00		Kresoxim-methyl		0.4 / 0.20
Acetamiprid		0.2 / 0.10		Malathion		0.2 / 0.10
Aldicarb		0.4 / 0.20		Metalaxyl		0.2 / 0.10
Azoxystrobin		0.2 / 0.10		Methiocarb		0.2 / 0.10
Bifenazate		0.2 / 0.10		Methomyl		0.4 / 0.20
Bifenthrin		0.2 / 0.10		Methyl Parathion		0.2 / 0.10
Boscalid		0.4 / 0.20		MGK-264		0.2 / 0.10
Carbaryl		0.2 / 0.10		Myclobutanil		0.2 / 0.10
Carbofuran		0.2 / 0.10		Naled		0.5 / 0.25
Chlorantraniliprole		0.2 / 0.10		Oxamyl		1.0 / 0.50
Chlorfenapyr		1.0 / 0.50		Paclobutrazol		0.4 / 0.20
Chlorpyrifos		0.2 / 0.10		Permethrins		0.2 / 0.10
Clofentezine		0.2 / 0.10		Phosmet		0.2 / 0.10
Cyfluthrin		1.0 / 0.50		Piperonyl butoxide		2.0 / 1.00
Cypermethrin		1.0 / 0.50		Prallethrin		0.2 / 0.10
Daminozide		1.0 / 0.50		Propiconazole		0.4 / 0.20
DDVP (Dichlorvos)		1.0 / 0.50		Propoxur		0.2 / 0.10
Diazinon		0.2 / 0.10		Pyrethrins		1.0 / 0.50
Dimethoate		0.2 / 0.10		Pyridaben		0.2 / 0.10
Ethoprophos		0.2 / 0.10		Spinosad		0.2 / 0.10
Etofenprox		0.4 / 0.20		Spiromesifen		0.2 / 0.10
Etoxazole		0.2 / 0.10		Spirotetramat		0.2 / 0.10
Fenoxycarb		0.2 / 0.10		Spiroxamine		0.4 / 0.20
Fenpyroximate		0.4 / 0.20		Tebuconazole		0.4 / 0.20
Fipronil		0.4 / 0.20		Thiacloprid		0.2 / 0.10
Flonicamid		1.0 / 0.50		Thiamethoxam		0.2 / 0.10
Fludioxonil		0.4 / 0.20		Trifloxystrobin		0.2 / 0.10
Hexythiazox		1.0 / 0.50				
Pesticide Screen	N/A					

*LOQ = Limit of Quantification

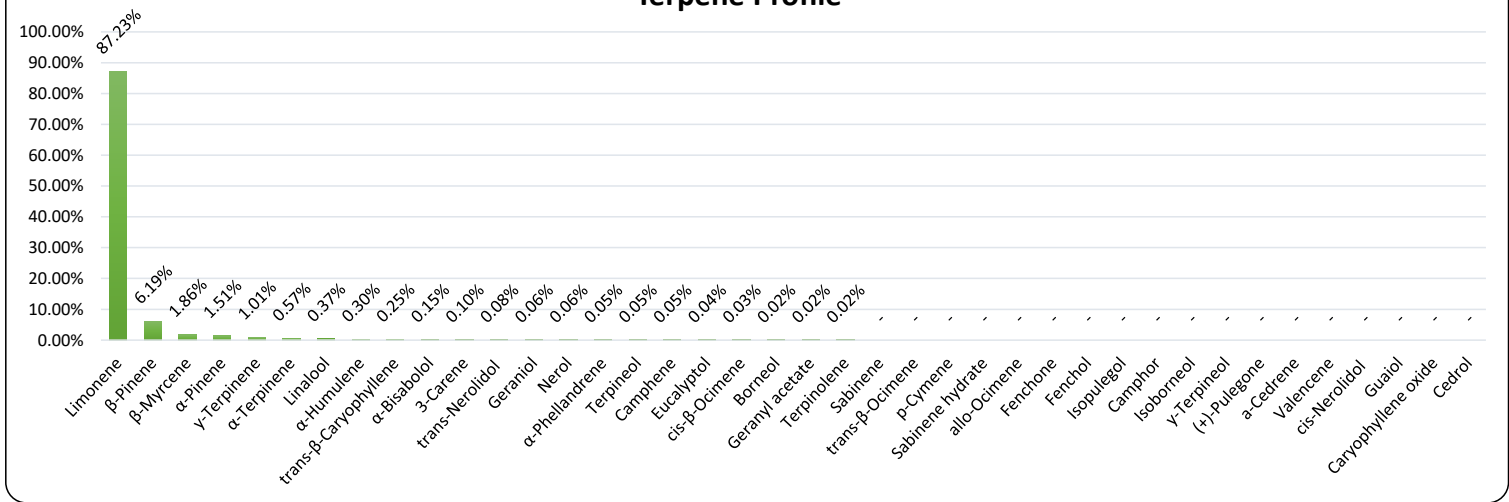
Microbiological Contaminants (Oregon Compliance Standard OAR 333-007-0390)

ANALYSIS DATE: Not Tested			
Microbiological screening	Colony count	CFU/g	Results:
Total coliforms	Not tested	Not tested	N/A
<i>Escherichia coli (E. coli)</i>	Not tested	Not tested	N/A

Terpene Profile

ANALYSIS DATE: 2019-01-21			Instrument: GC/MS		Method: JA-Terpene-Proprietary	
Compound	µg/g	%	Compound	µg/g	%	
α-Pinene	953.89	0.095	Isopulegol	0	0.000	
Camphene	28.94	0.003	Camphor	0	0.000	
Sabinene	0	0.000	Isoborneol	0	0.000	
β-Myrcene	1174.92	0.117	Borneol	10.27	0.001	
β-Pinene	3913.60	0.391	Terpineol	32.68	0.003	
α-Phellandrene	33.84	0.003	γ-Terpineol	0	0.000	
3-Carene	64.88	0.006	Nerol	34.78	0.003	
α-Terpinene	362.70	0.036	Geraniol	37.81	0.004	
trans-β-Ocimene	0	0.000	(+)-Pulegone	0	0.000	
Limonene	55137.73	5.514	Geranyl acetate	10.04	0.001	
p-Cymene	0	0.000	α-Cedrene	0	0.000	
cis-β-Ocimene	17.50	0.002	trans-β-Caryophyllene	157.78	0.016	
Eucalyptol	25.44	0.003	α-Humulene	187.88	0.019	
γ-Terpinene	639.04	0.064	Valencene	0	0.000	
Terpinolene	9.80	0.001	cis-Nerolidol	0	0.000	
Sabinene hydrate	0	0.000	trans-Nerolidol	49.95	0.005	
Linalool	232.46	0.023	Guaiol	0	0.000	
allo-Ocimene	0	0.000	Caryophyllene oxide	0	0.000	
Fenchone	0	0.000	Cedrol	0	0.000	
Fenchol	0	0.000	α-Bisabolol	96.86	0.010	
			TOTAL	63212.80	6.321	

Terpene Profile*



* Profile expressed as a percent of total terpenes

Batch QC WorkGroup ID:

Potency PO-2019-01-15-01

Residual Solvents

Pesticide

Disclaimer

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