

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: FWO-9031
 Harvest/Prod. Date: NA
 Sample ID: Frosty Watermelon 300mg
 METRC ID: Personal
 Juniper Batch #: **19JA0116.07**
 Intake Date: **2019-01-14**

NOT FOR COMPLIANCE



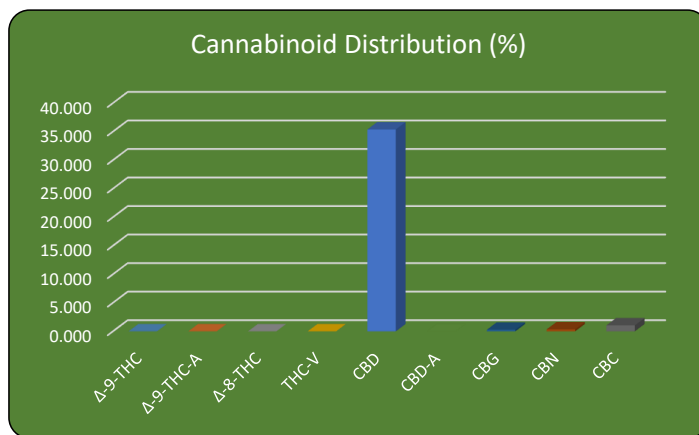
Potency Analysis (Oregon Compliance Standard OAR 333-007-0430)

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	35.383	353.83	2.00
CBD-A	< LOQ	< LOQ	2.00
CBG	0.281	2.81	2.00
CBN	0.339	3.39	2.00
CBC	1.049	10.49	2.00



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

THC_{Total} = (THC-A * 0.877) + Δ9THC

CBD Total =	35.383	353.83
-------------	--------	--------

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

* < LOQ - Less than the Limit of Quantification

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

ANALYSIS DATE: Not Tested

Instrument: GC/MS

Method: USP 467 - Modified

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

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

Stephen M.

Report Date: 2019-01-21

QA Review



Juniper Batch #:	19JA0116.07
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

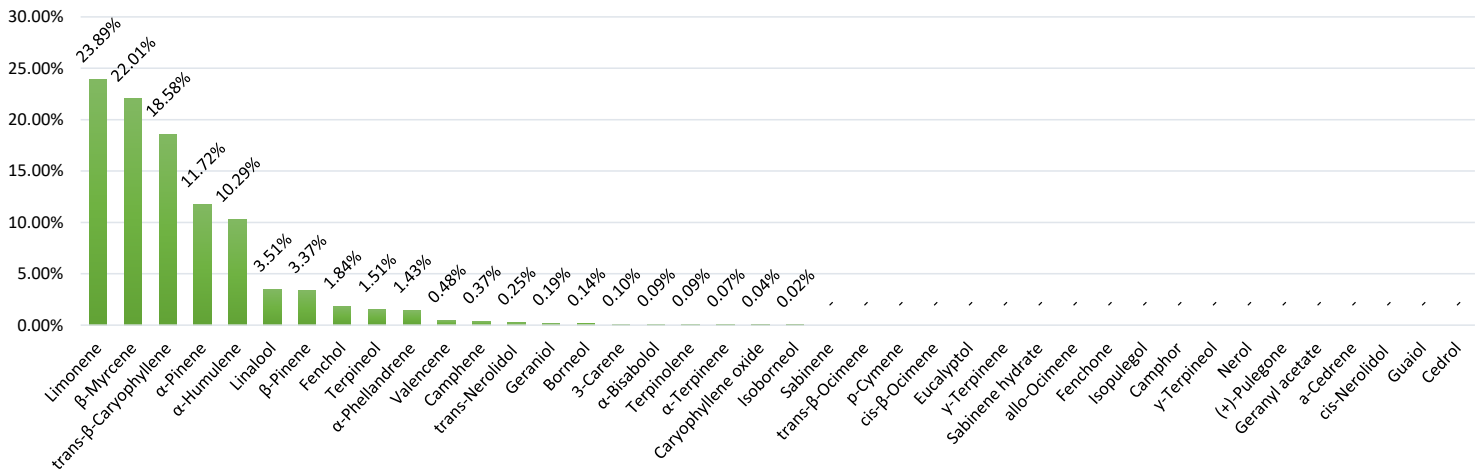
Microbiological Contaminants (Oregon Compliance Standard OAR 333-007-0390)

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: 2019-01-18			Instrument: GC/MS	Method: JA-Terpene-Proprietary	
Compound	µg/g	%	Compound	µg/g	%
α-Pinene	4746.87	0.475	Isopulegol	0	0.000
Camphene	151.55	0.015	Camphor	0	0.000
Sabinene	0	0.000	Isoborneol	7.26	0.001
β-Myrcene	8917.74	0.892	Borneol	57.15	0.006
β-Pinene	1365.85	0.137	Terpineol	613.24	0.061
α-Phellandrene	581.38	0.058	γ-Terpineol	0	0.000
3-Carene	42.40	0.004	Nerol	0	0.000
α-Terpinene	26.70	0.003	Geraniol	78.94	0.008
trans-β-Ocimene	0	0.000	(+)-Pulegone	0	0.000
Limonene	9677.85	0.968	Geranyl acetate	0	0.000
p-Cymene	0	0.000	α-Cedrene	0	0.000
cis-β-Ocimene	0	0.000	trans-β-Caryophyllene	7527.53	0.753
Eucalyptol	0	0.000	α-Humulene	4167.83	0.417
γ-Terpinene	0	0.000	Valencene	194.89	0.019
Terpinolene	36.78	0.004	cis-Nerolidol	0	0.000
Sabinene hydrate	0	0.000	trans-Nerolidol	102.36	0.010
Linalool	1420.90	0.142	Guaiol	0	0.000
allo-Ocimene	0	0.000	Caryophyllene oxide	15.46	0.002
Fenchone	0	0.000	Cedrol	0	0.000
Fenchol	743.48	0.074	α-Bisabolol	38.42	0.004
			TOTAL	40514.56	4.051

Terpene Profile*



* Profile expressed as a percent of total terpenes

Batch QC WorkGroup ID:

Potency PO-2019-01-14-01

Residual Solvents

Pesticide

Disclaimer

The results within this report apply only to the product tested and batched under the batch number identified above. These test results are for the exclusive use of the above named individual or entity. This report must not be altered, and may not be reproduced, except in their entirety, without written consent of Juniper Analytics, LLC. Requests for information regarding these results should be referred to the aforementioned individual or entity.