

CERTIFICATE OF ANALYSIS



Juniper Analytics, LLC
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 541.382.3796
 ORELAP: 4101-001 / OLCC: 10035537931

Client Name: Grander Distribution
 Contact Info: Brandon
 Sample Type: Edible
 External Batch ID: FWO-8243
 Harvest/Prod. Date: N/A
 Sample ID: Frosty_Watermelon_OG
 METRC ID: Personal
 Juniper Batch #: **18JA1589.01**
 Intake Date: **10/1/2018**

NOT FOR COMPLIANCE



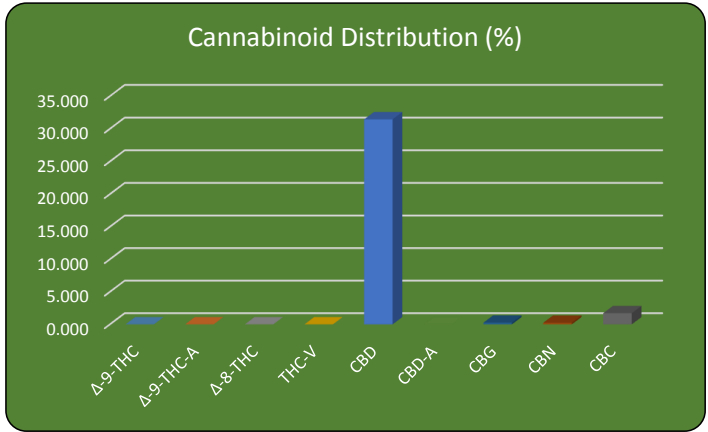
Potency Analysis (Oregon Compliance Standard OAR 333-007-0430)

ANALYSIS DATE: 10/3/2018

Instrument: HPLC/DAD

Method: JA-Potency-Proprietary

Compound	Weight (%)	Concentration (mg/g)	LOQ * (mg/g)
Δ-9-THC	< LOQ	< LOQ	0.74
Δ-9-THC-A	< LOQ	< LOQ	0.74
Δ-8-THC	< LOQ	< LOQ	0.74
THC-V	< LOQ	< LOQ	0.74
CBD	31.443	314.43	0.74
CBD-A	< LOQ	< LOQ	0.74
CBG	0.257	2.57	0.74
CBN	0.237	2.37	0.74
CBC	1.712	17.12	0.74



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

THC_{Total} = (THC-A * 0.877) + Δ9THC

CBD Total =	31.443	314.43
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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 / 100
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	
 QA Review	Report Date: 10/8/2018



Juniper Batch #:	18JA1589.01
Intake Date:	10/1/2018

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
Fonicamid		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

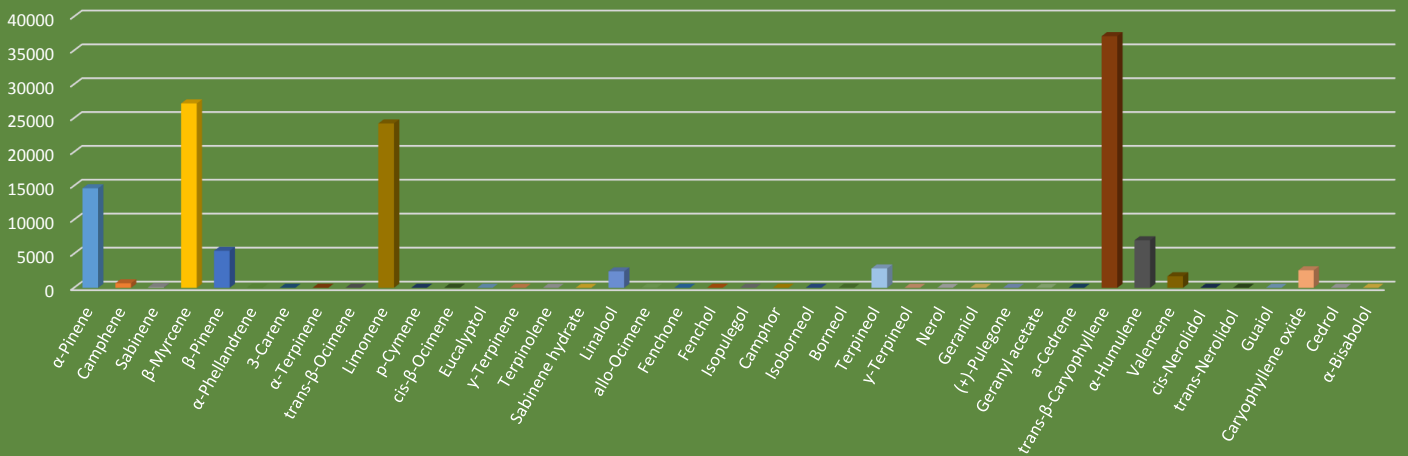
Microbiological Contaminants (Oregon Compliance Standard OAR 333-007-0390)

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

Terpene Profile

ANALYSIS DATE: 10/5/2018			Instrument: GC/MS		Method: JA-Terpene-Proprietary	
Compound	µg/g	%	Compound	µg/g	%	
α-Pinene	14644.83	1.464	Isopulegol	<LOQ	<LOQ	
Camphene	668.51	0.067	Camphor	<LOQ	<LOQ	
Sabinene	102.09	0.010	Isoborneol	<LOQ	<LOQ	
β-Myrcene	27180.46	2.718	Borneol	<LOQ	<LOQ	
β-Pinene	5434.07	0.543	Terpineol	2843.34	0.284	
α-Phellandrene	<LOQ	<LOQ	γ-Terpineol	<LOQ	<LOQ	
3-Carene	<LOQ	<LOQ	Nerol	<LOQ	<LOQ	
α-Terpinene	<LOQ	<LOQ	Geraniol	<LOQ	<LOQ	
trans-β-Ocimene	<LOQ	<LOQ	(+)-Pulegone	<LOQ	<LOQ	
Limonene	24228.59	2.423	Geranyl acetate	<LOQ	<LOQ	
p-Cymene	<LOQ	<LOQ	α-Cedrene	<LOQ	<LOQ	
cis-β-Ocimene	<LOQ	<LOQ	trans-β-Caryophyllene	37122.08	3.712	
Eucalyptol	<LOQ	<LOQ	α-Humulene	6987.71	0.699	
γ-Terpinene	<LOQ	<LOQ	Valencene	1695.50	0.170	
Terpinolene	<LOQ	<LOQ	cis-Nerolidol	<LOQ	<LOQ	
Sabinene hydrate	<LOQ	<LOQ	trans-Nerolidol	<LOQ	<LOQ	
Linalool	2420.30	0.242	Guaiol	<LOQ	<LOQ	
allo-Ocimene	<LOQ	<LOQ	Caryophyllene oxide	2573.50	0.257	
Fenchone	<LOQ	<LOQ	Cedrol	<LOQ	<LOQ	
Fenchol	<LOQ	<LOQ	α-Bisabolol	<LOQ	<LOQ	
			TOTAL	125901.00	12.590	

Terpene Levels (µg/g)



Batch QC WorkGroup ID:

Potency PO-2018-10-02-01-PREP

Residual Solvents

Pesticide

Disclaimer

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