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:	Edible
External Batch ID:	GEL-8243
Harvest/Prod. Date:	N/A
Sample ID:	Gelato
METRC ID:	Personal
Juniper Batch #:	18JA1589.02
Intake Date:	10/1/2018

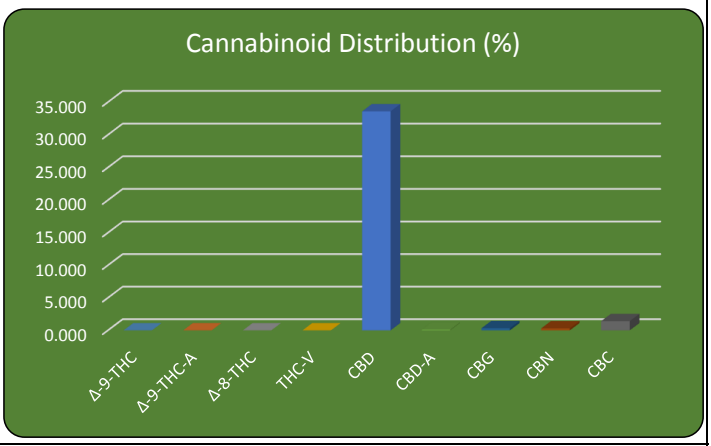
NOT FOR COMPLIANCE

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	0.67
Δ-9-THC-A	< LOQ	< LOQ	0.67
Δ-8-THC	< LOQ	< LOQ	0.67
THC-V	< LOQ	< LOQ	0.67
CBD	33.595	335.95	0.67
CBD-A	0.116	1.16	0.67
CBG	0.327	3.27	0.67
CBN	0.300	3.00	0.67
CBC	1.413	14.13	0.67



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

THC_{Total} = (THC-A * 0.877)+Δ9THC

CBD Total =	33.697	336.97

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 / 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

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INTEGRITY AND ACCURACY IN EVERY STEP

Juniper Batch #:	18JA1589.02
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
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**
Escherichia coli (E. coli)	Not tested	Not tested	**N/A**

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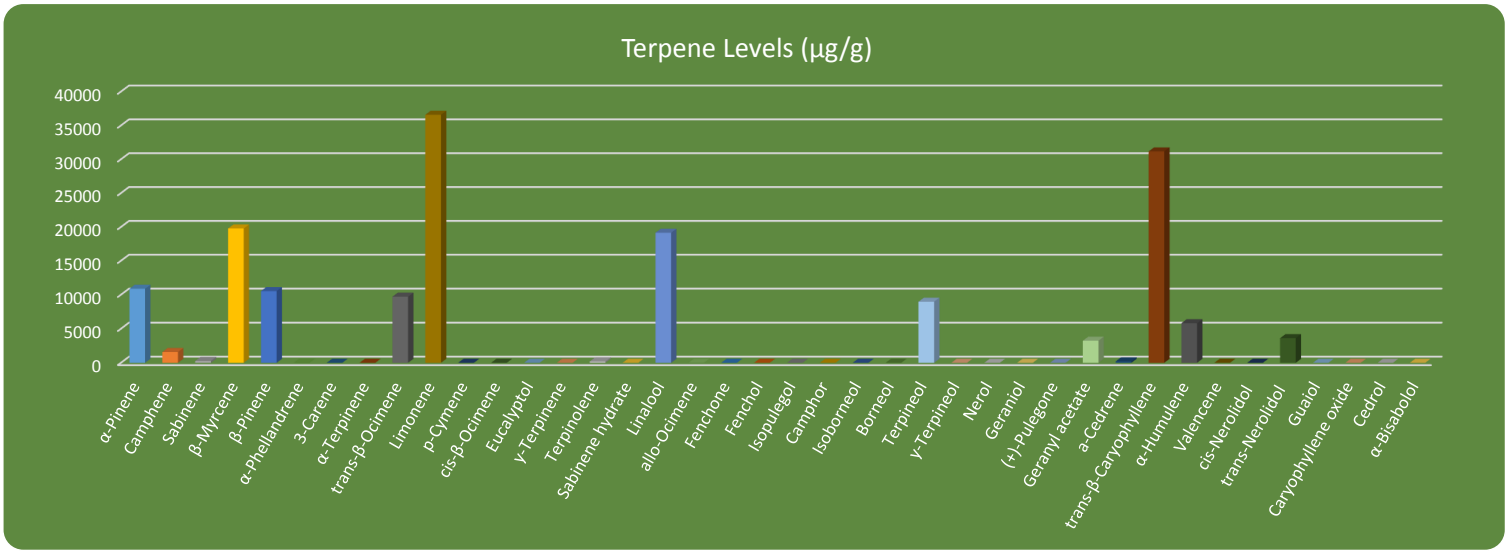
INTEGRITY AND ACCURACY IN EVERY STEP

Juniper Batch #:	18JA1589.02
Intake Date:	10/1/2018

Terpene Profile

ANALYSIS DATE: 10/5/2018 Instrument: GC/MS Method: JA-Terpene-Proprietary

Compound	µg/g	%	Compound	µg/g	%
α-Pinene	10886.45	1.089	Isopulegol	<LOQ	<LOQ
Camphene	1587.75	0.159	Camphor	<LOQ	<LOQ
Sabinene	272.43	0.027	Isoborneol	<LOQ	<LOQ
β-Myrcene	19788.88	1.979	Borneol	<LOQ	<LOQ
β-Pinene	10543.15	1.054	Terpineol	8984.80	0.898
α-Phellandrene	<LOQ	<LOQ	y-Terpineol	<LOQ	<LOQ
3-Carene	<LOQ	<LOQ	Nerol	<LOQ	<LOQ
α-Terpinene	<LOQ	<LOQ	Geraniol	<LOQ	<LOQ
trans-β-Ocimene	9719.07	0.972	(+)-Pulegone	<LOQ	<LOQ
Limonene	36586.47	3.659	Geranyl acetate	3251.52	0.325
p-Cymene	<LOQ	<LOQ	a-Cedrene	211.37	0.021
cis-β-Ocimene	<LOQ	<LOQ	trans-β-Caryophyllene	31170.72	3.117
Eucalyptol	<LOQ	<LOQ	α-Humulene	5822.99	0.582
y-Terpinene	<LOQ	<LOQ	Valencene	<LOQ	<LOQ
Terpinolene	198.59	0.020	cis-Nerolidol	<LOQ	<LOQ
Sabinene hydrate	<LOQ	<LOQ	trans-Nerolidol	3617.87	0.362
Linalool	19152.54	1.915	Guaiol	<LOQ	<LOQ
allo-Ocimene	<LOQ	<LOQ	Caryophyllene oxide	<LOQ	<LOQ
Fenchone	<LOQ	<LOQ	Cedrol	<LOQ	<LOQ
Fenchol	<LOQ	<LOQ	α-Bisabolol	<LOQ	<LOQ
			TOTAL	161794.60	16.179



Batch QC WorkGroup ID:

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

Residual Solvents

Pesticide

Disclaimer