

**CERTIFICATE OF ANALYSIS**



Juniper Analytics, LLC  
 1334 NE 2nd Street, Bend, OR, 97701  
 541.382.3796  
 ORELAP: 4101 / OLCC: 010-10035537931

Client Name:  
 Contact Info:  
 Sample Type:  
 External Batch ID:  
 Harvest/Prod. Date:  
 Sample ID:  
 METRC ID:  
 Juniper Batch #:  
 Intake Date: **2019-11-11**

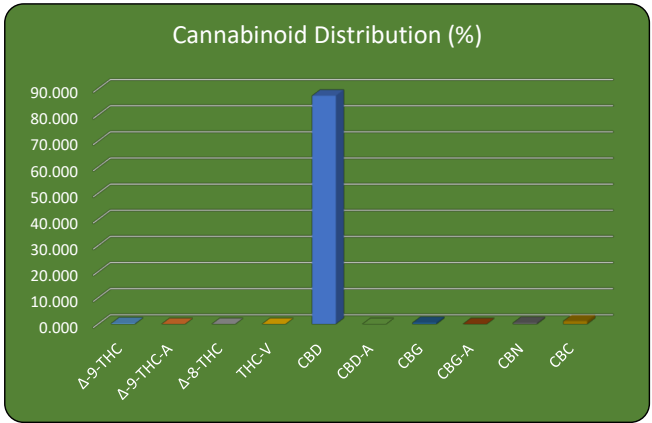


**Potency Analysis (Oregon Compliance Standard OAR 333-007-0430)**

ANALYSIS DATE: 2019-11-11

Instrument: HPLC/DAD  
 Method: JA-Potency-Proprietary

Compound	Weight (%)	Concentration (mg/g)	LOQ* (mg/g)
Δ-9-THC	0.289	2.89	1.00
Δ-9-THC-A	< LOQ	< LOQ	1.00
Δ-8-THC	< LOQ	< LOQ	1.00
THC-V	< LOQ	< LOQ	1.00
CBD	87.403	874.03	1.00
CBD-A	< LOQ	< LOQ	1.00
CBG	0.544	5.44	1.00
CBG-A	< LOQ	< LOQ	1.00
CBN	0.489	4.89	1.00
CBC	1.169	11.69	1.00



TOTAL THC/CBD	Weight (%)	Conc (mg/g)
<b>THC Total =</b>	<b>0.289</b>	<b>2.89</b>

THC<sub>Total</sub> = (THC-A \* 0.877) + Δ9THC

<b>CBD Total =</b>	<b>87.403</b>	<b>874.03</b>
--------------------	---------------	---------------

CBD<sub>Total</sub> = (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	
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)	
<b>Pentanes;</b>		5000 / 500	
-n-pentane		**	
-iso-pentane		**	
-neo-pentane		**	
<b>Butanes;</b>		5000 / 500	
-n-butane		**	
-iso-butane		**	
<b>Hexanes;</b>		290 / 50	
-n-hexane		**	
-2-methylpentane		**	
-3-methylpentane		**	
-2,2-dimethylbutane		**	
-2,3-dimethylbutane		**	
<b>Xylenes;</b>		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	
	Report Date: 2019-11-14
QA Review	



Juniper Batch #:	
Intake Date:	2019-11-11

### 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				
<b>Pesticide Screen</b>	<b>N/A</b>					

\*LOQ = Limit of Quantification

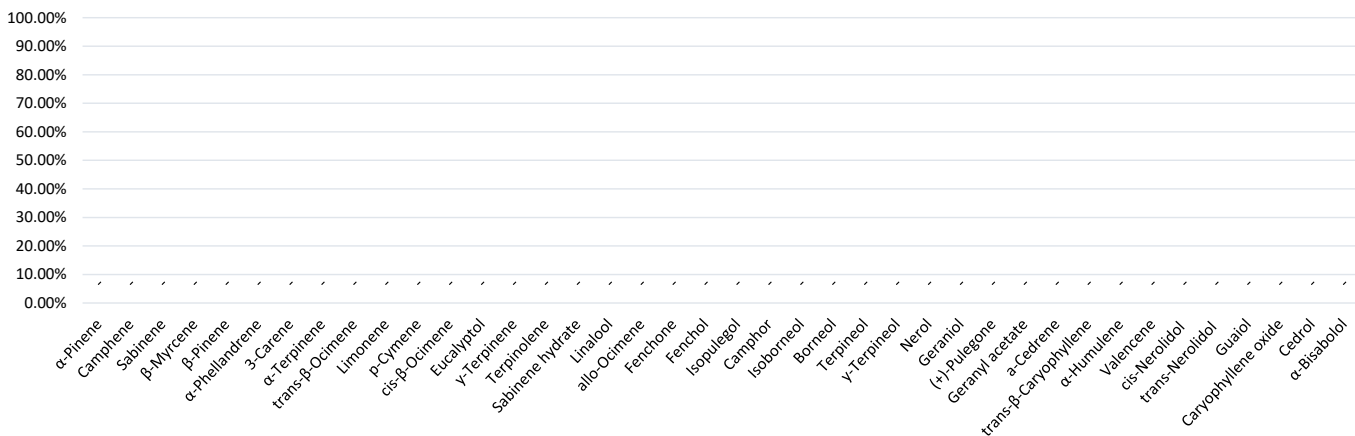
### Microbiological Contaminants (Oregon Compliance Standard OAR 333-007-0390)

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

### Terpene Profile

ANALYSIS DATE: Not Tested			Instrument: GC/MS			Method: JA-Terpene-Proprietary		
Compound	µg/g	%	Compound	µg/g	%			
α-Pinene			Isopulegol					
Camphene			Camphor					
Sabinene			Isoborneol					
β-Myrcene			Borneol					
β-Pinene			Terpineol					
α-Phellandrene			γ-Terpineol					
3-Carene			Nerol					
α-Terpinene			Geraniol					
trans-β-Ocimene			(+)-Pulegone					
Limonene			Geranyl acetate					
p-Cymene			α-Cedrene					
cis-β-Ocimene			trans-β-Caryophyllene					
Eucalyptol			α-Humulene					
γ-Terpinene			Valencene					
Terpinolene			cis-Nerolidol					
Sabinene hydrate			trans-Nerolidol					
Linalool			Guaiol					
allo-Ocimene			Caryophyllene oxide					
Fenchone			Cedrol					
Fenchol			α-Bisabolol					
			TOTAL					

### Terpene Profile\*



\* Profile expressed as a percent of total terpenes

Batch QC WorkGroup ID:

Potency

Residual Solvents N/A

Pesticide N/A

### 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.