

CERTIFICATE OF ANALYSIS



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

Client Name: AHO MCXI
 Contact Info: Brian
 Sample Type: Tincture
 External Batch ID: NA
 Harvest/Prod. Date: NA
 Sample ID: Pumpkin CBD 12-24-18 Dog Oil
 METRC ID: Personal
 Juniper Batch #: 18JA2292.02
 Intake Date: 12/27/2018



APPROVAL

[Signature]

Report Date: 1/4/2019

QA Review

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

ANALYSIS DATE: 12/28/2018

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

Compound	Weight (%)	Concentration (mg/g)	LOQ* (mg/g)	Concentration (mg/mL)	Concentration (mg/Unit)
Δ-9-THC	<LOQ	<LOQ	0.16	<LOQ	<LOQ
Δ-9-THC-A	0.078	0.78	0.16	0.73	21.70
Δ-8-THC	<LOQ	<LOQ	0.16	<LOQ	<LOQ
THC-V	<LOQ	<LOQ	0.16	<LOQ	<LOQ
CBD	0.096	0.96	0.16	0.91	26.85
CBD-A	2.273	22.73	0.16	21.50	635.96
CBG	<LOQ	<LOQ	0.16	<LOQ	<LOQ
CBN	<LOQ	<LOQ	0.16	<LOQ	<LOQ
CBC	<LOQ	<LOQ	0.16	<LOQ	<LOQ
Total Cannabinoids	2.447	24.47		23.15	684.52

TOTAL THC/CBD	Weight (%)	Conc (mg/g)
THC Total =	0.068	0.68

THC_{Total} = (THC-A * 0.877) + Δ9THC

CBD Total =	2.090	20.90
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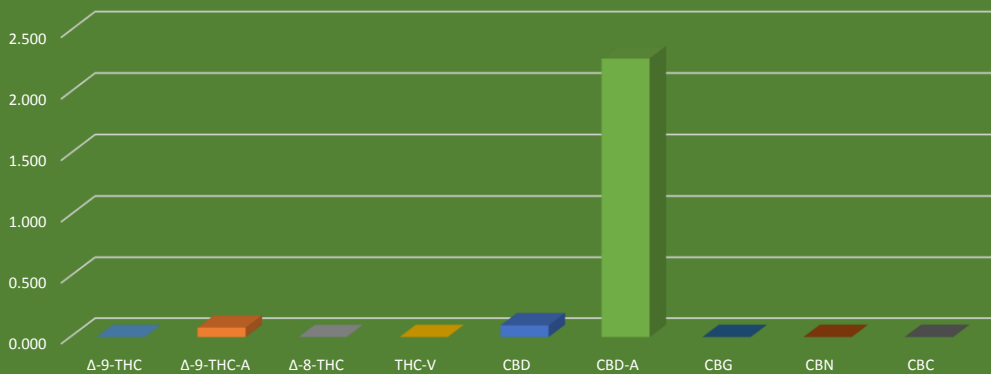
CBD_{Total} = (CBD-A * 0.877) + CBD

Conc (mg/mL)	Conc (mg/Unit)
0.64	19.03

19.77	584.59
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* < LOQ - Less than the Limit of Quantification

Cannabinoid Distribution (%)



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



Juniper Batch #: 18JA2292.02
Intake Date: 12/27/2018

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)	
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

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	Pacllobutrazol		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					

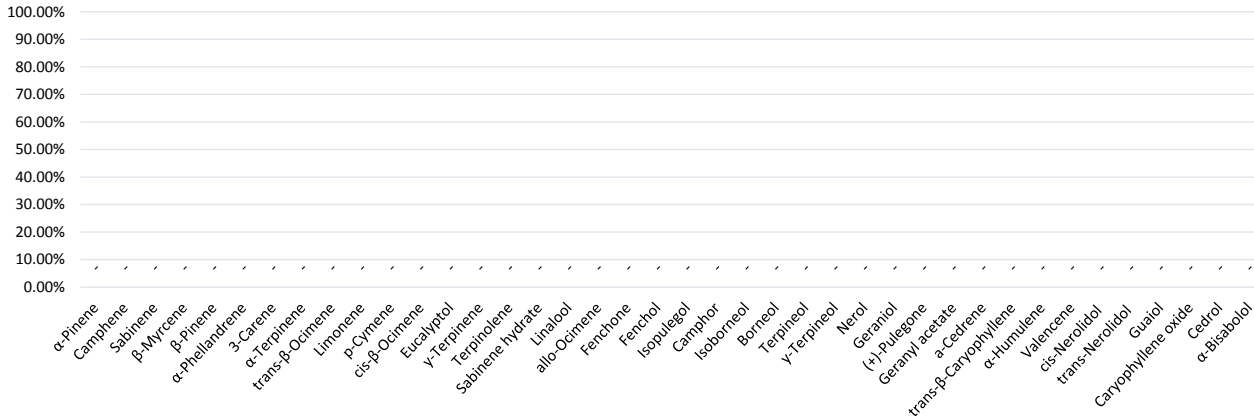
*LOQ = Limit of Quantification



Terpene Profile

ANALYSIS DATE: Not Tested			Instrument: GC/MS			Method: JA-Terpene-Proprietary		
Compound	µg/g	%	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	<LOQ			<LOQ	

Terpene Profile*



* Profile expressed as a percent of total terpenes

Batch QC WorkGroup ID:

Potency PO-2018-12-27-02

Residual Solvents

Pesticide

Disclaimer

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