CERTIFICATE OF ANALYSIS

Juniper Analytics, LLC
1334 NE 2nd Street, Bend, OR, 97701
541.382.3796
ORELAP: 4101-001 / OLCC: 10035537931

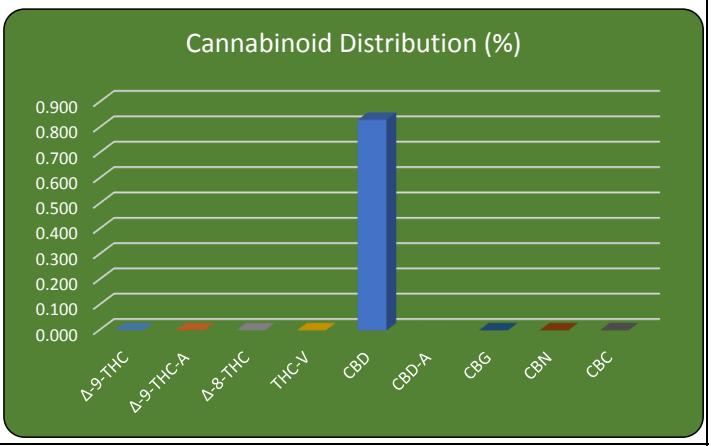
Client Name:	DC Laboratories
Contact Info:	Stephen
Sample Type:	Topical
External Batch ID:	81828
Harvest/Prod. Date:	NA
Sample ID:	Relief Stick
METRC ID:	Personal
Juniper Batch #:	19JA0981.06
Intake Date:	03/25/19

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

ANALYSIS DATE: 03/15/19

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

Compound	Weight (%)	Concentration (mg/g)	LOQ * (mg/g)
Δ-9-THC	< LOQ	< LOQ	0.05
Δ-9-THC-A	< LOQ	< LOQ	0.05
Δ-8-THC	< LOQ	< LOQ	0.05
THC-V	< LOQ	< LOQ	0.05
CBD	0.830	8.30	0.05
CBD-A	< LOQ	< LOQ	0.05
CBG	< LOQ	< LOQ	0.05
CBN	< LOQ	< LOQ	0.05
CBC	< LOQ	< LOQ	0.05



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

THC_{Total} = (THC-A * 0.877)+Δ9THC

CBD Total =	0.830	8.30

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: 03/25/19

Instrument: GC/MS
Method: USP 467 - Modified

Solvent	Result (ppm)	Action Level / LOQ (ppm)
1,4-Dioxane	<LOQ	380 / 100
2-Butanol	<LOQ	5000 / 500
2-Ethoxyethanol	<LOQ	160 / 100
2-Propanol (IPA)	<LOQ	5000 / 500
Acetone	<LOQ	5000 / 500
Acetonitrile	<LOQ	410 / 100
Benzene	<LOQ	2 / 1
Cumene	<LOQ	70 / 50
Cyclohexane	<LOQ	3880 / 500
Dichloromethane	<LOQ	600 / 100
Ethyl acetate	<LOQ	5000 / 500
Ethyl ether	<LOQ	5000 / 500
Ethylene glycol	<LOQ	620 / 300
Ethylene oxide	<LOQ	50 / 10
Heptane	<LOQ	5000 / 500
Isopropyl acetate	<LOQ	5000 / 500
Methanol	<LOQ	3000 / 500
Propane	<LOQ	5000 / 500
Tetrahydrofuran	<LOQ	720 / 100
Toluene	<LOQ	890 / 100

Solvent	Result (ppm)	Action Level / LOQ (ppm)
Pentanes;	<LOQ	5000 / 500
-n-pentane	<LOQ	**
-iso-pentane	<LOQ	**
-neo-pentane	<LOQ	**
Butanes;	<LOQ	5000 / 500
-n-butane	<LOQ	**
-iso-butane	<LOQ	**
Hexanes;	<LOQ	290 / 50
-n-hexane	<LOQ	**
-2-methylpentane	<LOQ	**
-3-methylpentane	<LOQ	**
-2,2-dimethylbutane	<LOQ	**
-2,3-dimethylbutane	<LOQ	**
Xylenes;	<LOQ	2170 / 300
-1,2-dimethylbenzene	<LOQ	**
-1,3-dimethylbenzene	<LOQ	**
-1,4-dimethylbenzene	<LOQ	**
-Ethyl benzene	<LOQ	**
**Limit based on combined results		

Residual Solvents	PASS

Tentatively Identified Compounds: Peak 1: Hit 1: 1-Butanol, 2-Methyl-, (S)- Peak 2: Hits 1-2: 1-Butanol, 2-Methyl-, Peak 3: Hits 1-3: Propanoic Acid, 2-Methyl-, 2-Methylpropyl Ester

<LOQ - Less than the Limit of Quantification

APPROVAL

QA Review

Report Date: 03/25/19

JuniperAnalytics
INTEGRITY AND ACCURACY IN EVERY STEP

Juniper Batch #:	19JA0981.06
Intake Date:	03/25/19

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**

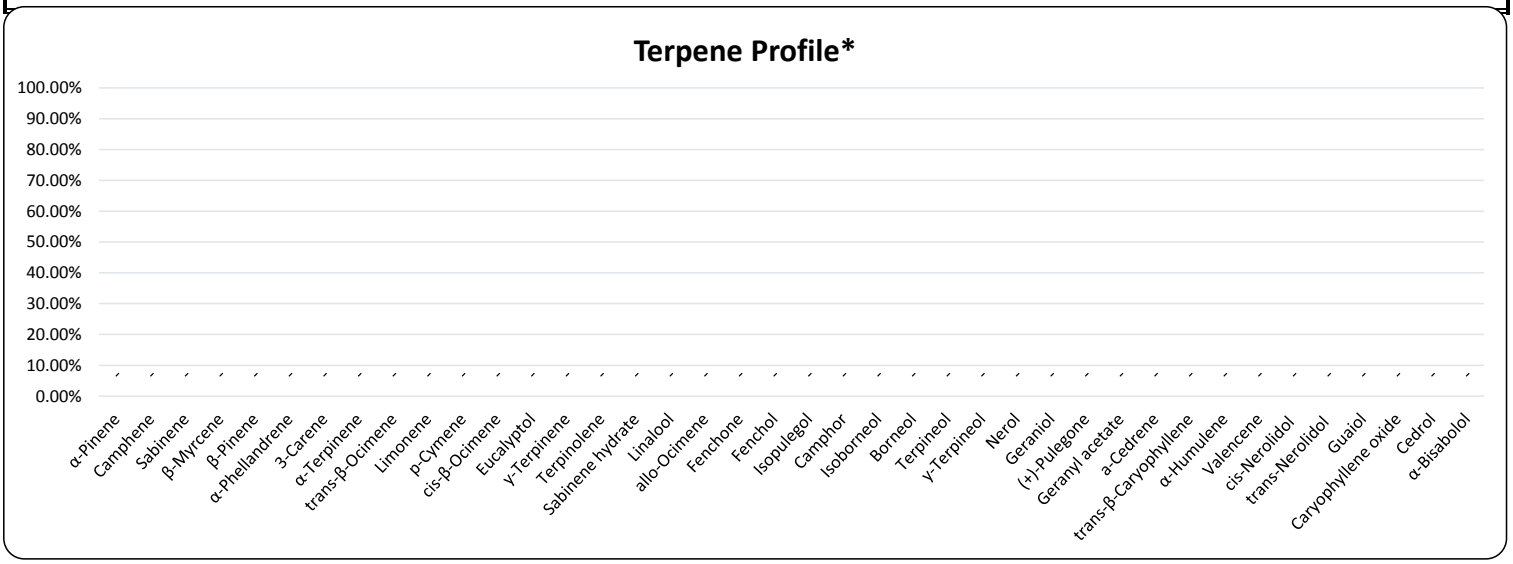
JuniperAnalytics
INTEGRITY AND ACCURACY IN EVERY STEP

Juniper Batch #:	19JA0981.06
Intake Date:	03/25/19

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			y-Terpineol		
3-Carene			Nerol		
α-Terpinene			Geraniol		
trans-β-Ocimene			(+)-Pulegone		
Limonene			Geranyl acetate		
p-Cymene			a-Cedrene		
cis-β-Ocimene			trans-β-Caryophyllene		
Eucalyptol			α-Humulene		
y-Terpinene			Valencene		
Terpinolene			cis-Nerolidol		
Sabinene hydrate			trans-Nerolidol		
Linalool			Guaiol		
allo-Ocimene			Caryophyllene oxide		
Fenchone			Cedrol		
Fenchol			α-Bisabolol		
			TOTAL	<LOQ	<LOQ



*** Profile expressed as a percent of total terpenes**

Batch QC WorkGroup ID:

Potency PO-2019-02-12-03 **Residual Solvents** RS-2019-03-25-01

Pesticide

Disclaimer