

# CERTIFICATE OF ANALYSIS



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

Client Name: C-Side Supply  
 Contact Info: Brandon  
 Sample Type: Extract  
 External Batch ID: 2665  
 Harvest/Prod. Date: 10/23/2019  
 Sample ID: T-Free Dist  
 METRC ID: Industrial Hemp  
 Juniper Batch #:  
 Intake Date:

Batch sampled per  
 OAR 333-064-0100

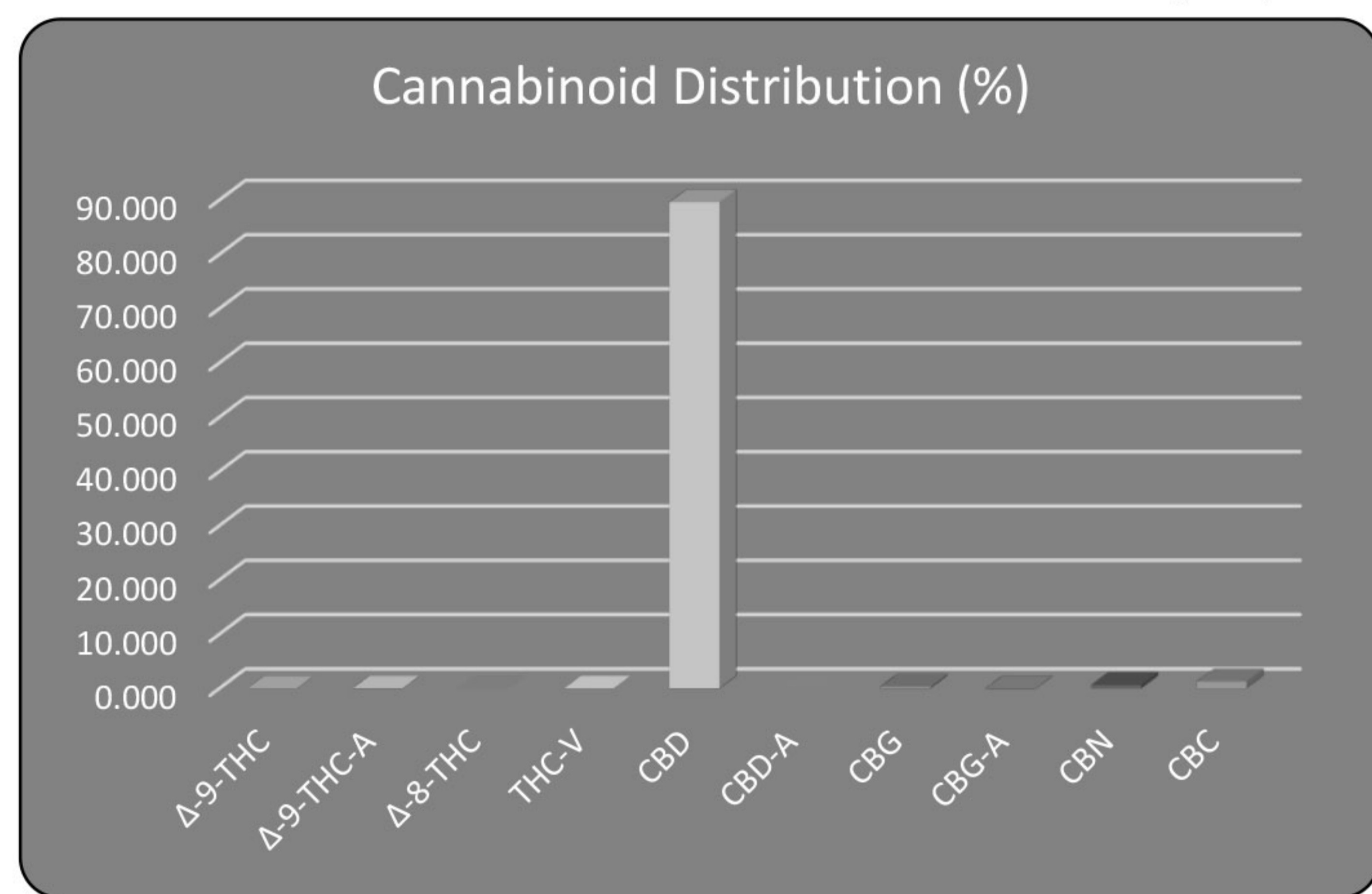


## Potency Analysis (Oregon Compliance Standard OAR 333-007-0430)

ANALYSIS DATE: 10/27/2019

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

Compound	Weight (%)	Concentration (mg/g)	LOQ (mg/g)
Δ-9-THC	<LOQ	<LOQ	1.00
Δ-9-THC-A	<LOQ	<LOQ	1.00
Δ-8-THC	<LOQ	<LOQ	1.00
THC-V	<LOQ	<LOQ	1.00
CBD	89.605	896.05	1.00
CBD-A	<LOQ	<LOQ	1.00
CBG	0.358	3.58	1.00
CBG-A	<LOQ	<LOQ	1.00
CBN	0.673	6.73	1.00
CBC	1.289	12.89	1.00



TOTAL THC/CBD	Weight (%)	Conc (mg/g)	RPD
% THC Total =	<LOQ	<LOQ	N/A
%THC <sub>Total</sub> = (THC-A * 0.877) + Δ9THC			
% CBD Total =	89.605	896.05	
%CBD <sub>Total</sub> = (CBD-A * 0.877) + CBD			

## Residual Solvent Analysis (Oregon Compliance Standard OAR 333-007-0410)

ANALYSIS DATE: 10/28/2019

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

Instrument: GC/MS Method: USP 467 - Modified

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

Residual Solvents Pass

<LOQ - Less than the Limit of Quantification

\*\*\*Largest hit reported to appropriate governing body; RPD only calculated on samples where the average result is above 50% of the action level.

Approval

*Ben Curtis*

Report Date: 10/28/2019

QA Review

**Pesticide Analysis (Oregon Compliance Standard OAR 333-008-1190)**

ANALYSIS DATE: 10/28/2019			Instrument: LC/MS/MS			Method: AOAC 2007.1 <sub>-modified</sub>		
Pesticide	Result (ppm)	Action Level / LOQ (ppm)	Pesticide	Result (ppm)	Action Level / LOQ (ppm)			
Abamectin	<LOQ	0.5 / 0.25	Imazalil	<LOQ	0.2 / 0.10			
Acephate	<LOQ	0.4 / 0.20	Imidacloprid	<LOQ	0.4 / 0.20			
Acequinocyl	<LOQ	2.0 / 1.00	Kresoxim-methyl	<LOQ	0.4 / 0.20			
Acetamiprid	<LOQ	0.2 / 0.10	Malathion	<LOQ	0.2 / 0.10			
Aldicarb	<LOQ	0.4 / 0.20	Metaxyl	<LOQ	0.2 / 0.10			
Azoxystrobin	<LOQ	0.2 / 0.10	Methiocarb	<LOQ	0.2 / 0.10			
Bifenazate	<LOQ	0.2 / 0.10	Methomyl	<LOQ	0.4 / 0.20			
Bifenthrin	<LOQ	0.2 / 0.10	Methyl Parathion	<LOQ	0.2 / 0.10			
Boscalid	<LOQ	0.4 / 0.20	MGK-264	<LOQ	0.2 / 0.10			
Carbaryl	<LOQ	0.2 / 0.10	Myclobutanil	<LOQ	0.2 / 0.10			
Carbofuran	<LOQ	0.2 / 0.10	Naled	<LOQ	0.5 / 0.25			
Chlorantraniliprole	<LOQ	0.2 / 0.10	Oxamyl	<LOQ	1.0 / 0.50			
Chlorfenapyr	<LOQ	1.0 / 0.50	Paclobutrazol	<LOQ	0.4 / 0.20			
Chlorpyrifos	<LOQ	0.2 / 0.10	Permethrins	<LOQ	0.2 / 0.10			
Clofentezine	<LOQ	0.2 / 0.10	Phosmet	<LOQ	0.2 / 0.10			
Cyfluthrin	<LOQ	1.0 / 0.50	Piperonyl butoxide	<LOQ	2.0 / 1.00			
Cypermethrin	<LOQ	1.0 / 0.50	Prallethrin	<LOQ	0.2 / 0.10			
Daminozide	<LOQ	1.0 / 0.50	Propiconazole	<LOQ	0.4 / 0.20			
DDVP (Dichlorvos)	<LOQ	1.0 / 0.50	Propoxur	<LOQ	0.2 / 0.10			
Diazinon	<LOQ	0.2 / 0.10	Pyrethrins	<LOQ	1.0 / 0.50			
Dimethoate	<LOQ	0.2 / 0.10	Pyridaben	<LOQ	0.2 / 0.10			
Ethoprophos	<LOQ	0.2 / 0.10	Spinosad	<LOQ	0.2 / 0.10			
Etofenprox	<LOQ	0.4 / 0.20	Spiromesifen	<LOQ	0.2 / 0.10			
Etoxazole	<LOQ	0.2 / 0.10	Spirotetramat	<LOQ	0.2 / 0.10			
Fenoxycarb	<LOQ	0.2 / 0.10	Spiroxamine	<LOQ	0.4 / 0.20			
Fenpyroximate	<LOQ	0.4 / 0.20	Tebuconazole	<LOQ	0.4 / 0.20			
Fipronil	<LOQ	0.4 / 0.20	Thiacloprid	<LOQ	0.2 / 0.10			
Fonicamid	<LOQ	1.0 / 0.50	Thiamethoxam	<LOQ	0.2 / 0.10			
Fludioxonil	<LOQ	0.4 / 0.20	Trifloxystrobin	<LOQ	0.2 / 0.10			
Hexythiazox	<LOQ	1.0 / 0.50						
<b>Pesticide Screen</b>	<b>Pass</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:
Total coliforms	Not tested	Not tested	N/A
<i>Escherichia coli (E. coli)</i>	Not tested	Not tested	N/A

**Terpene Profile**

ANALYSIS DATE: Not Tested

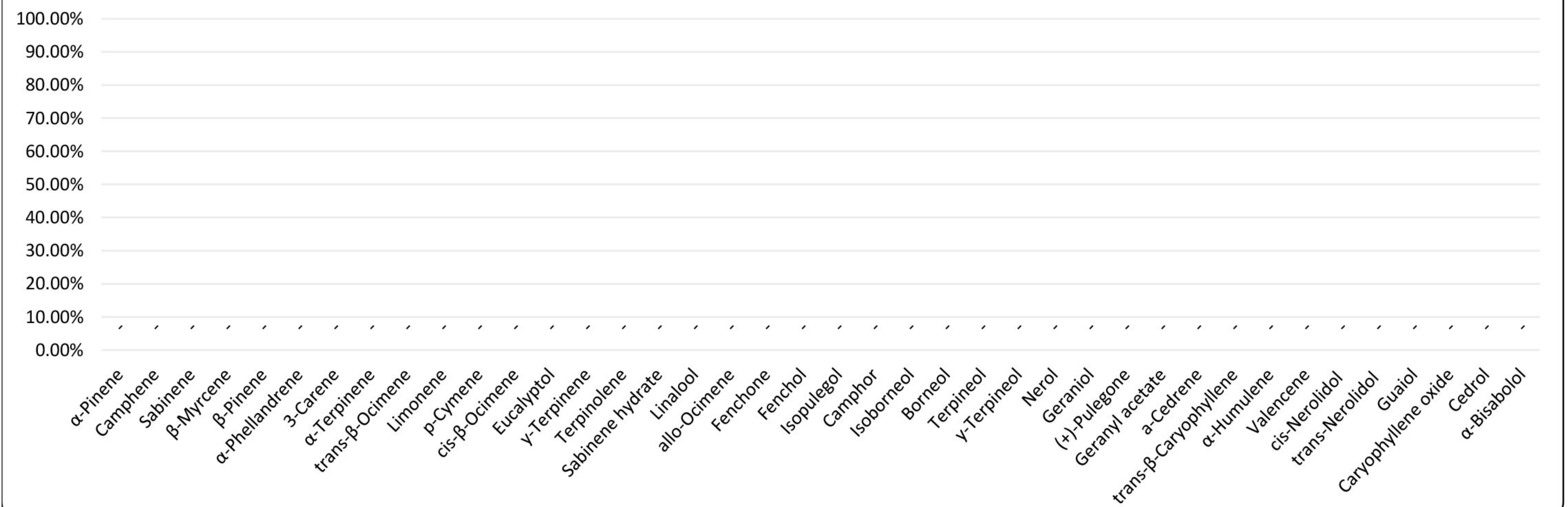
Instrument: GC/MS

Method: JA-Terpene-Proprietary

Compound	µg/g	%
α-Pinene		
Camphene		
Sabinene		
β-Myrcene		
β-Pinene		
α-Phellandrene		
3-Carene		
α-Terpinene		
trans-β-Ocimene		
Limonene		
p-Cymene		
cis-β-Ocimene		
Eucalyptol		
γ-Terpinene		
Terpinolene		
Sabinene hydrate		
Linalool		
allo-Ocimene		
Fenchone		
Fenchol		

Compound	µg/g	%
Isopulegol		
Camphor		
Isoborneol		
Borneol		
Terpineol		
γ-Terpineol		
Nerol		
Geraniol		
(+)-Pulegone		
Geranyl acetate		
α-Cedrene		
trans-β-Caryophyllene		
α-Humulene		
Valencene		
cis-Nerolidol		
trans-Nerolidol		
Guaiol		
Caryophyllene oxide		
Cedrol		
α-Bisabolol		
TOTAL		

**Terpene Profile\***



\* Profile expressed as a percent of total terpenes

Batch QC WorkGroup ID:

Potency PO-2019-10-25-02

Pesticides Pest-2019-10-25-01

Residual Solvents RS-2019-10-25-01

**Disclaimer**

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