

CERTIFICATE OF ANALYSIS



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

Client Name: Global Cannabinoids
 Contact Info: Frank Mulligan
 Sample Type: Concentrate
 External Batch ID: ECS-BSD952-TF - BD181112
 Harvest/Prod. Date: 10/22/2018
 Sample ID: BSD-952-2040
 METRC ID: NA
 Juniper Batch #: 18JA1815.01_A-B Composite
 Intake Date: 10/25/2018



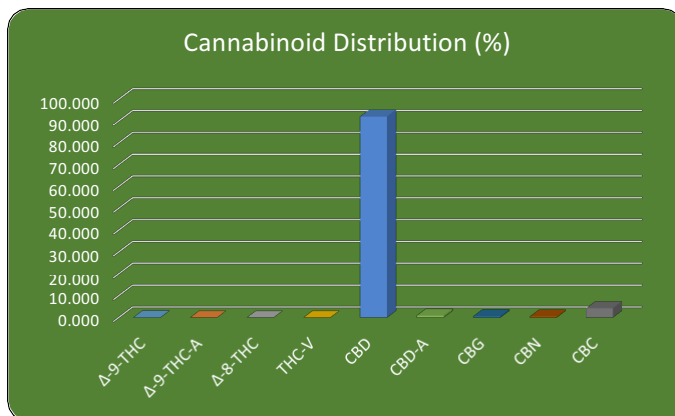
Potency Analysis (Oregon Compliance Standard OAR 333-007-0430)

ANALYSIS DATE: 10/29/2018

Instrument: HPLC/DAD

Method: JA-Potency-Proprietary

Compound	Weight (%)	Concentration (mg/g)	LOQ (mg/g)
Δ-9-THC	<LOQ	<LOQ	0.99
Δ-9-THC-A	<LOQ	<LOQ	0.99
Δ-8-THC	<LOQ	<LOQ	0.99
THC-V	<LOQ	<LOQ	0.99
CBD	92.102	921.02	0.99
CBD-A	0.915	9.15	0.99
CBG	0.604	6.04	0.99
CBN	0.487	4.87	0.99
CBC	4.276	42.76	0.99



TOTAL THC/CBD	Weight (%)	Conc (mg/g)	RPD
% THC Total =	<LOQ	<LOQ	8.46%
%THC _{Total} = (THC-A * 0.877) + Δ9THC			
% CBD Total =	92.905	929.05	PASS
%CBD _{Total} = (CBD-A * 0.877) + CBD			

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

ANALYSIS DATE: 10/31/2018

Instrument: GC/MS

Method: USP 467 - Modified

Solvent	Result (ppm)	RPD
1,4-Dioxane	<LOQ	N/A
2-Butanol	<LOQ	N/A
2-Ethoxyethanol	<LOQ	N/A
2-Propanol (IPA)	<LOQ	N/A
Acetone	<LOQ	N/A
Acetonitrile	<LOQ	N/A
Benzene	<LOQ	N/A
Cumene	<LOQ	N/A
Cyclohexane	<LOQ	N/A
Dichloromethane	<LOQ	N/A
Ethyl acetate	<LOQ	N/A
Ethyl ether	<LOQ	N/A
Ethylene glycol	<LOQ	N/A
Ethylene oxide	<LOQ	N/A
Heptane	<LOQ	N/A
Isopropyl acetate	<LOQ	N/A
Methanol	<LOQ	N/A
Propane	<LOQ	N/A
Tetrahydrofuran	<LOQ	N/A
Toluene	<LOQ	N/A

Solvent	Result (ppm)	RPD
Pentanes;	<LOQ	N/A
-n-pentane	<LOQ	**
-iso-pentane	<LOQ	**
-neo-pentane	<LOQ	**
Butanes;	<LOQ	N/A
-n-butane	<LOQ	**
-iso-butane	<LOQ	**
Hexanes;	<LOQ	N/A
-n-hexane	<LOQ	**
-2-methylpentane	<LOQ	**
-3-methylpentane	<LOQ	**
-2,2-dimethylbutane	<LOQ	**
-2,3-dimethylbutane	<LOQ	**
Xylenes;	<LOQ	N/A
-1,2-dimethylbenzene	<LOQ	**
-1,3-dimethylbenzene	<LOQ	**
-1,4-dimethylbenzene	<LOQ	**
-Ethyl benzene	<LOQ	**
**RPD calculated for combined results		

Residual Solvents **PASS**

Tentatively Identified Compounds: None detected

<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

Casey E...

Report Date: 11/1/2018

QA Review



Juniper Batch #: 18JA1815.01_A-B Composite
 Intake Date: 10/25/2018

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

ANALYSIS DATE: 10/30/2018			Instrument: LC/MS/MS			Method: AOAC 2007.1 ^{-modified}		
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	Metalaxyl	<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	Paclbutrazol	<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			
Flonicamid	<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						
Pesticide Screen	PASS							

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



Juniper Batch #: 18JA1815.01_A-B Composite

Intake Date: 10/25/2018

Terpene Profile

ANALYSIS DATE: Not Tested

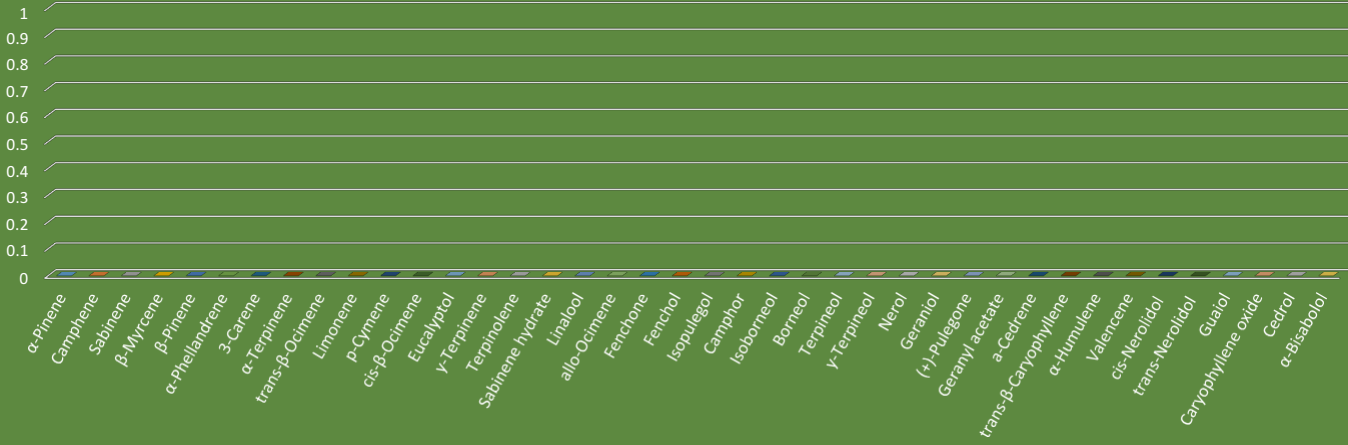
Instrument: GC/MS

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 Levels (µg/g)



Batch QC WorkGroup ID:

Potency PO-2018-10-25-04

Residual Solvents RS-10-25-18-01

Pesticides 2018-10-26-01

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.