



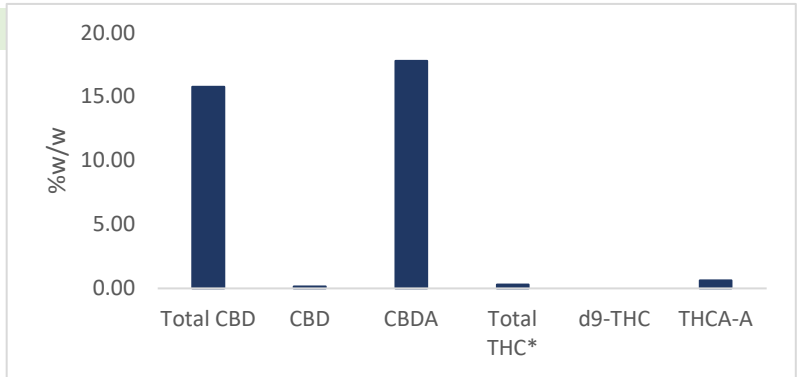
# Certificate of Analysis

<b>Client</b>	Serious Dirt Botanics, Inc.	
<b>Email:</b>	<a href="mailto:hello@seriousdirtbotanics.com">hello@seriousdirtbotanics.com</a>	
<b>Sample Type</b>	Dried Flower	
<b>Cultivar:</b>	T2	
<b>Report:</b>	NEP-RPT.AKG31801.01	
<b>Report Date:</b>	19-Nov-19	

<b>Approved By:</b>	Keith Griswold, M.S.	<b>Signature:</b>	<b>Date:</b>
<b>Title:</b>	Analytics & Formulations Dir.		12-Dec-2019

Report Summary	Purpose	Test Method	Result Status
Cannabinoids	Potency/Compliance	C5210-HPLCUV	PASS
Water Activity	Microbiological	ASTM D8196-18	PASS
Moisture Content	Microbiological	ASTM D8196-18	PASS
Minor Cannabinoids	Quality	C6198 LCMSMS	PASS
Terpenes	Quality	C5933 HSGCMS	PASS
Mycotoxins	Microbiological/Safety	C5838 LCMSMS/AOAC 2007.01	PASS
Pesticides	Safety	C5838 LCMSMS/AOAC 2007.01	PASS
Heavy Metals	Safety	ICP-MS	PASS
Foreign Matter/Mold	Microbiological/Safety	C2013 Macroscopic	PASS

<b>Method:</b>	Cannabinoids-Limited Screen by HPLC-UV	<b>Analyst:</b>	KG	<b>Analysis Date:</b>	4-Nov-2019
<b>Method ID:</b>	NEP-CERF-5210 (internal)				
	<b>%W/W</b>				
<b>Total CBD</b>	15.78				
<b>CBD</b>	0.14				
<b>CBDA</b>	17.82				
<b>Total THC*</b>	0.28				
<b>d9-THC</b>	< 0.05				
<b>THCA-A</b>	0.60				



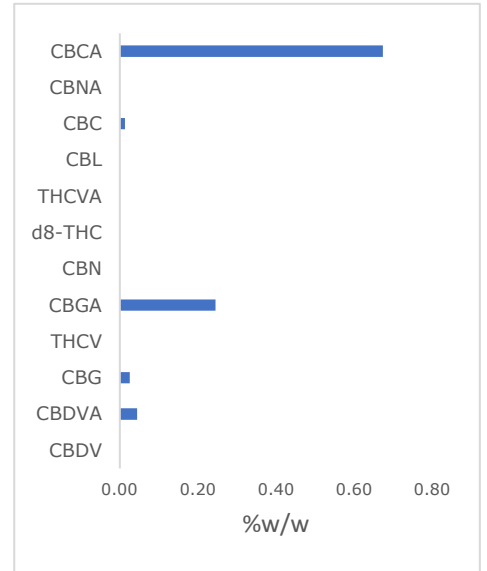
**Measurement Uncertainty (95% CI)** ± 0.04

\*Total CBD calculated using the molar ratio constant 0.877; results reported on a "dry basis." Total THC is the measurement of d9-THC on decarboxylated flower (heated at 90 °C for 4 h).

<b>Method:</b>	Water Activity/Moisture Content	<b>Analyst:</b>	KT	<b>Analysis Date:</b>	4-Nov-2019
<b>Method ID:</b>	ASTM D8196-18				
<b>Water Activity</b>	<b>0.603</b>	<b>Aw</b>			
<b>Moisture Content</b>	<b>14.3</b>	<b>%</b>			

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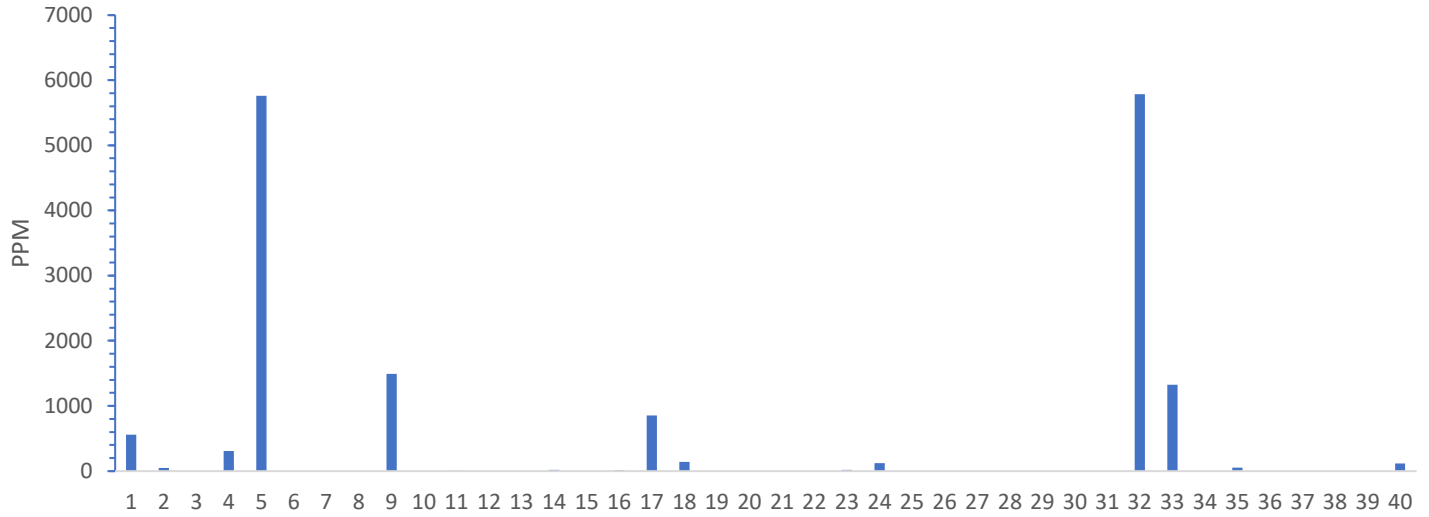
Method:	Cannabinoids-Full Screen by LCMSMS	Analyst:	KG	Analysis Date:	4-Nov-2019
Method ID:	C6198 (internal)				
Cannabinoid	%W/W	MG/G			
CBDV	<0.01	-			
CBDVA	0.05	0.45			
CBG	0.03	0.26			
THCV	<0.01	-			
CBGA	0.25	2.46			
CBN	<0.01	-			
d8-THC	<0.01	-			
THCVA	<0.01	-			
CBL	<0.01	-			
CBC	0.01	0.14			
CBNA	<0.01	-			
CBCA	0.67	6.74			
<b>Total Minor Cannbinoids</b>	<b>1.01</b>	<b>%w/w</b>			



# Certificate of Analysis

<b>Method:</b>	Terpen Profile by HS-GCMS	<b>Analyst:</b>	ML	<b>Analysis Date:</b>	30-Oct-2019
<b>Method ID:</b>	NEP-CERF-5933 (internal)				

Terpene Profile



Analyte	PPM	Analyte	PPM		
1	a-Pinene	558	21	Isoborneol	< 2
2	Camphene	47	22	Menthol	< 2
3	Sabinene-	< 2	23	endo-Borneol	19
4	b-Pinene	309	24	a-Terpineol	120
5	b-Myrcene	5762	25	g Terpineol	< 2
6	.a-Phellandrene	< 2	26	Nerol	< 2
7	Carene	< 2	27	Pulegone	< 2
8	a-Terpinene	< 2	28	Geraniol	< 2
9	D-Limonene	1490	29	Geranyl acetate	< 2
10	o-Cymene	< 2	30	a-Cedrene	< 2
11	Eucalyptol	1	31	(E)-b-Famesene	< 2
12	b-Ocimene	< 2	32	Caryophyllene	5785
13	gTerpinene	< 2	33	a-Humulene	1326
14	Terpinolene	16	34	trans-Neradiol	< 2
15	Sabinene Hydrate	< 2	35	cis-Neradiol	54
16	Fenchone	11	36	Valencene	< 2
17	Linalool	851	37	Guaiol	< 2
18	Fenchol	139	38	Caryophyllene Oxide	< 2
19	Isopulegol	< 2	39	Cedrol	< 2
20	Camphor	< 2	40	a-Bisabolol	116

\*Reporting limit is 2 parts per million; results reported on a dry basis.

Total 16604  
Total (%w/w) 1.66



# Certificate of Analysis

21 O'Bryan Drive  
Brattleboro, VT 05301  
Ph: (802) 490-2865  
[Northeastprocessing.com](http://Northeastprocessing.com)

Method:	Pesticides & Mycotoxins by LCMSMS	Analyst:	KG	Analysis Date:	
Method ID:	C5838/AOAC 2007.01	Results	< 20	Status	PASS
Mycotoxins	Units	Detection Limit	MRL	Results	Status
Ochratoxin A	ppb	2	20	< 20	PASS
Aflatoxin B1	ppb	2			
Aflatoxin B2	ppb	2			
Aflatoxin G1	ppb	2			
Aflatoxin G2	ppb	2			
Sum of Aflatoxins	ppb			< 20	PASS
Pesticide	Units	Limit of Detection	MRL	Results	Status
Bifenazate	ppm	0.1	0.2	Non Detect	PASS
Bifenthrin	ppm	0.05	0.05	Non Detect	PASS
Baythroid (Cyfluthrin)	ppm	0.05	1.0	Non Detect	PASS
Etoxale	ppm	0.05	0.2	Non Detect	PASS
Imazalil	ppm	0.05	0.2	Non Detect	PASS
Imidacloprid	ppm	0.05	0.4	Non Detect	PASS
Systhane (Myclobutanil)	ppm	0.05	0.2	Non Detect	PASS
Spiromesifen	ppm	0.05	0.2	Non Detect	PASS
Trifloxystrobin	ppm	0.05	0.2	Non Detect	PASS

*Reporting limit for all mycotoxins screened is 2 parts per billion (ppb); MRL - maximum residual limit allowed by EPA/Orgeon Regulations*

Method:	Heavy Metals by ICP-MS	Analyst:	CB	Analysis Date:	
Report ID:	C-191022BA	Results	43	Status	PASS
Heavy Metal	Symbol	Units	Action Limit	Result	Status
Arsenic	As	ppb	200	12	PASS
Cadmium	Cd	ppb	200	131	PASS
Mercury	Hg	ppb	100	< 0.1	PASS
Lead	Pb	ppb	500	43	PASS

*Reporting limit is 0.1 ppb; results reported on a dry basis; MRL - maximum residual limit allowed by Oregon State Regulations*

# Certificate of Analysis

<b>Method:</b>	Foreign Matter/Mold		<b>Analyst:</b>	<b>Analysis Date:</b>
<b>Method ID:</b>	NEP-CERF-2013 (internal)		KG	6-Nov-2019
<b>Foreign Matter</b>	<b>Sample</b>	<b>Action Limit</b>	<b>Result</b>	
Organic	As Received	Detection of Fungal Growth	PASS	
	Milled/10 Mesh Sieve	AHPA 2014	PASS	
Non-Organic	As Received	AHPA 2014	PASS	
	Milled/10 Mesh Sieve	AHPA 2014	PASS	



Fungal growth detected by macroscopic inspection of sample as received; additional foreign organic matter determined by milling the sample and sieving through a 10 mesh screen. AHPA defines foreign matter as no more than 5.0% of stems 3 mm or more in diameter and not more than 2.0% of other foreign matter.

**Comments:**

**Testing Info:** All testing is performed by either industry accepted methodology or internal methodology developed, validated and controlled under AOAC and ICH guidelines. Northeast Analytics is a participant in second party sponsored proficiency testing and is currently in the process of receiving ISO/IEC 17025/2017 accreditation. Please direct any inquiries regarding results in this report for additional testing capabilities to [analytics@northeastprocessing.com](mailto:analytics@northeastprocessing.com).