


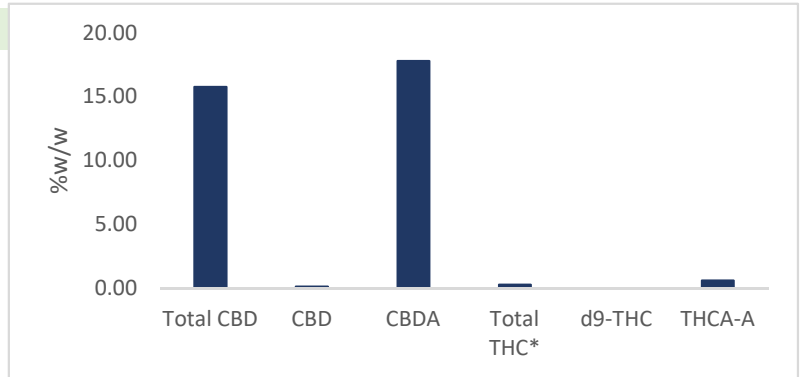
# Certificate of Analysis

<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.AKG31801.00	
<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.		19-Nov-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				



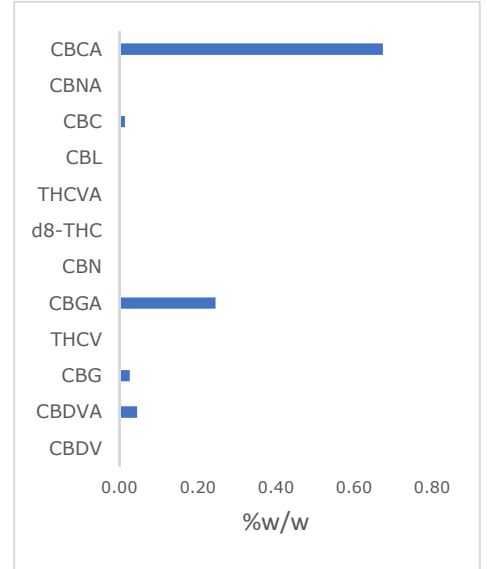
**Measurement Uncertainty (95% CI)** ± 0.04

\*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>			

# Certificate of Analysis

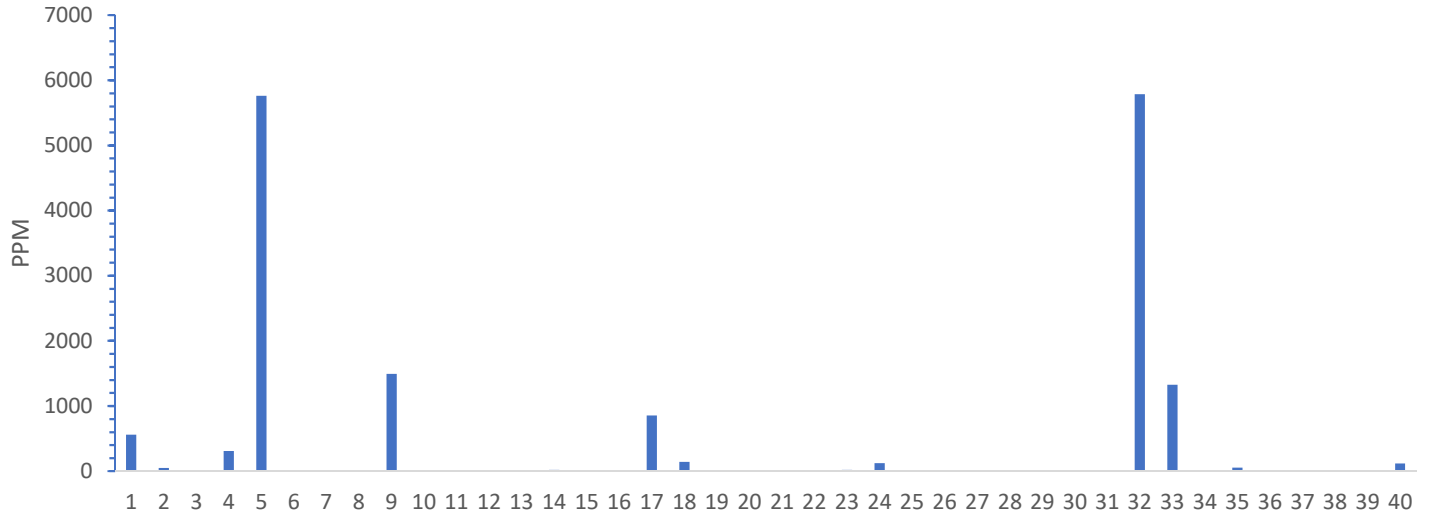
Method:	Cannabinoids-Full Screen by LCMSMS	Analyst:	KG	Analysis Date:	4-Nov-2019
Method ID:	C6198 (internal)				
Cannabinoid	%W/W	MG/G			
CBDV	<0.01	-			
CBDVA	0.05	0.45			
CBG	0.03	0.26			
THCV	<0.01	-			
CBGA	0.25	2.46			
CBN	<0.01	-			
d8-THC	<0.01	-			
THCVA	<0.01	-			
CBL	<0.01	-			
CBC	0.01	0.14			
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 Terpeneol	< 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

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Brattleboro, VT 05301  
Ph: (802) 490-2865  
[Northeastprocessing.com](http://Northeastprocessing.com)

Method:	Pesticides & Mycotoxins by LCMSMS			Analyst:	KG		Analysis Date:	4-Nov-2019		
Method ID:	C5838/AOAC 2007.01			MRL			Status			
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:	8-Nov-2019		
Cultivar:	T2			MRL			Status			
SAMPLE ID	Units	As	Cd	Hg	Pb	Result				
ES-190624WB	A C-191022AX	ppb	16.1	166	0.2	31.6	PASS			
ES-190625WB	B C-191022AY	ppb	11.1	160	< 0.1	31.2	PASS			
Reporting Limit	ppb	0.1	0.1	0.1	0.1					
Action Level	ppb	200	200	100	500					

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

# Certificate of Analysis

Method:	Foreign Matter/Mold		Analyst:	KG	Analysis Date:	6-Nov-2019
Method ID:	NEP-CERF-2013 (internal)					
Foreign Matter	Sample	Action Limit				Result
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).