

CERTIFICATE OF ANALYSIS

Sample Name: Dr.Ganja CBG Flower
 Steep Hill ID: BK74400
 Batch ID: O100419Z
 Sample Type: Flower
 Date Received: 10/4/2019

Customer: Dr.Ganja

Cannabinoid Results – Extended Cannabinoids
10/10/2019

Standard potency analysis utilizing High Performance Liquid Chromatography with Photo Diode Array Detector (HPLC-PDA; SOP-068)

Analyte	%	mg/g	% (Dry)	mg/g (Dry)	LOD mg/g	LOQ mg/g
CBC	0.099	0.99			0.034	0.44
CBCA	0.55	5.5			0.0133	0.44
CBD	0.032	0.32			0.153	0.88
CBDA	ND	ND			0.050	0.44
CBDV	ND	ND			0.149	0.88
CBDVA	ND	ND			0.061	0.44
CBG	0.63	6.3			0.065	0.44
CBGA	15.7	157			0.051	0.44
CBLA	ND	ND			0.053	0.44
CBN	ND	ND			0.0168	0.44
CBNA	ND	ND			0.0150	0.44
THC	ND	ND			0.068	0.44
Δ8-THC	ND	ND			0.135	0.88
THCA	0.121	1.21			0.070	0.44
THCV	ND	ND			0.096	0.88
THCVA	ND	ND			0.081	0.44
Total	17.1	171				

Total THC	Total CBD
0.106 %	0.032 %
1.06 mg/g	0.32 mg/g
	ND
	ND

ND: Not Detected NT: Not Tested LOQ: Limit of Quantitation LOD: Limit of Detection



Travis Ruthenberg
 Chief Science Officer
 Date: 10/10/2019

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 REVISION #: BK74400.1

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Residual Pesticides Results

10/8/2019

Residual pesticide analysis utilizing Liquid and Gas Chromatography – Mass Spectrometry (LC-MSMS + GC-MSMS; SOP-070 + SOP-080) - Limit units: µg/g

Analyte	µg/g	Limit	LOD µg/g	LOQ µg/g	Analyte	µg/g	Limit	LOD µg/g	LOQ µg/g
Abamectin	ND	0.1	0.023	0.078	Fludioxonil	ND	0.1	0.0117	0.039
Acephate	ND	0.1	0.0044	0.0147	Hexythiazox	ND	0.1	0.0046	0.0154
Acequinocyl	ND	0.1	0.024	0.079	Imazalil	ND	ND	0.0045	0.0149
Acetamiprid	ND	0.1	0.0045	0.0151	Imidacloprid	ND	5	0.0046	0.0154
Aldicarb	ND	ND	0.0045	0.0151	Kresoxim-methyl	ND	0.1	0.0046	0.0153
Azoxystrobin	ND	0.1	0.0045	0.0149	Malathion	ND	0.5	0.0046	0.0154
Bifenazate	ND	0.1	0.0045	0.0149	Metaxyl	ND	2	0.0046	0.0153
Bifenthrin	ND	3	0.0045	0.0149	Methiocarb	ND	ND	0.0118	0.039
Boscalid	ND	0.1	0.0046	0.0153	Methomyl	ND	1	0.0046	0.0153
Captan	ND	0.7	0.095	0.32	Methyl Parathion	ND	ND	0.0046	0.0153
Carbaryl	ND	0.5	0.0045	0.0151	Mevinphos	ND	ND	0.0141	0.047
Carbofuran	ND	ND	0.0045	0.0149	Myclobutanil	ND	0.1	0.0046	0.0154
Chlorantraniliprole	ND	10	0.0045	0.0149	Naled	ND	0.1	0.0046	0.0154
Chlordane	ND	ND	0.0027	0.0090	Oxamyl	ND	0.5	0.0046	0.0154
Chlorfenapyr	ND	ND	0.0118	0.039	Paclobutrazol	ND	ND	0.0045	0.0149
Chlorpyrifos	ND	ND	0.0045	0.0151	Pentachloronitrobenzene	ND	0.1	0.0047	0.0156
Clofentezine	ND	0.1	0.0119	0.039	Permethrin	ND	0.5	0.0131	0.044
Coumaphos	ND	ND	0.0045	0.0149	Phosmet	ND	0.1	0.0045	0.0151
Cyfluthrin	ND	2	0.096	0.32	Piperonyl Butoxide	ND	3	0.0046	0.0154
Cypermethrin	ND	1	0.095	0.32	Prallethrin	ND	0.1	0.024	0.081
Daminozide	ND	ND	0.0117	0.039	Propiconazole	ND	0.1	0.0121	0.040
Diazinon	ND	0.1	0.0045	0.0151	Propoxur	ND	ND	0.0045	0.0149
Dichlorvos	ND	ND	0.0045	0.0151	Pyrethrins	ND	0.5	0.0133	0.044
Dimethoate	ND	ND	0.0045	0.0149	Pyridaben	ND	0.1	0.0046	0.0153
Dimethomorph	ND	2	0.0031	0.0102	Spinetoram	ND	0.1	0.0034	0.0115
Ethoprophos	ND	ND	0.0045	0.0151	Spinosad	ND	0.1	0.0045	0.0151
Etofenprox	ND	ND	0.0045	0.0149	Spiromesifen	ND	0.1	0.024	0.081
Etoxazole	ND	0.1	0.0045	0.0151	Spirotetramat	ND	0.1	0.0046	0.0154
Fenhexamid	ND	0.1	0.0045	0.0149	Spiroxamine	ND	ND	0.0045	0.0149
Fenoxycarb	ND	ND	0.0045	0.0151	Tebuconazole	ND	0.1	0.0046	0.0153
Fenpyroximate	ND	0.1	0.0045	0.0149	Thiacloprid	ND	ND	0.0045	0.0149
Fipronil	ND	ND	0.0118	0.039	Thiamethoxam	ND	5	0.0046	0.0153
Flonicamid	ND	0.1	0.0045	0.0151	Trifloxystrobin	ND	0.1	0.0046	0.0153

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Customer: Dr.Ganja

Terpenoid Results - Extended Terpenes
10/7/2019

Extended terpene analysis utilizing Gas Chromatography – Mass Spectrometry (GC-MS; SOP-069)

Analyte	%	mg/g	LOD mg/g	LOQ mg/g	Analyte	%	mg/g	LOD mg/g	LOQ mg/g
α-Bisabolol	0.188	1.88	0.0021	0.071	Linalool	0.0098	0.098	0.00086	0.071
endo-Borneol	< LOQ	< LOQ	0.000161	0.080	Menthol	ND	ND	0.00141	0.071
Camphene	ND	ND	0.00028	0.071	β-Myrcene	0.109	1.09	0.00090	0.071
Camphor	ND	ND	0.00060	0.150	Nerol	ND	ND	0.0058	0.071
3-Carene	ND	ND	0.00028	0.071	cis-Nerolidol	ND	ND	0.0039	0.071
Caryophyllene Oxide	< LOQ	< LOQ	0.00064	0.071	trans-Nerolidol	0.0181	0.181	0.0055	0.071
β-Caryophyllene	0.32	3.2	0.0023	0.071	cis-β-Ocimene	ND	ND	0.00126	0.053
α-Cedrene	ND	ND	0.00100	0.080	trans-β-Ocimene	ND	ND	0.00143	0.027
Cedrol	ND	ND	0.0038	0.071	α-Phellandrene	ND	ND	0.00083	0.071
Citronellol	ND	ND	0.0075	0.071	Phytol 1	ND	ND	0.00152	0.027
Eucalyptol	ND	ND	0.00141	0.071	Phytol 2	0.0068	0.068	0.00175	0.044
α-Farnesene	ND	ND	0.0101	0.024	α-Pinene	0.046	0.46	0.00023	0.080
β-Farnesene	0.0174	0.174	0.0036	0.088	β-Pinene	0.0085	0.085	0.000175	0.071
Fenchol	< LOQ	< LOQ	0.00056	0.080	Pulegone	ND	ND	0.0020	0.071
Fenchone	ND	ND	0.00035	0.071	Sabinene	ND	ND	0.000168	0.071
Geraniol	ND	ND	0.0110	0.071	Sabinene Hydrate	ND	ND	0.00156	0.071
Geranyl Acetate	ND	ND	0.0031	0.115	α-Terpinene	ND	ND	0.00036	0.080
Guaiol	0.112	1.12	0.00182	0.080	γ-Terpinene	ND	ND	0.00039	0.071
α-Humulene	0.068	0.68	0.00036	0.071	α-Terpineol	0.0099	0.099	0.00158	0.071
Isoborneol	ND	ND	0.00036	0.071	Terpinolene	< LOQ	< LOQ	0.00062	0.080
Isopulegol	ND	ND	0.0032	0.071	Valencene	ND	ND	0.0030	0.071
Limonene	0.020	0.20	0.00040	0.071	Total	0.93	9.3		

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Microbial Impurities Results

10/10/2019

Microbiological screening utilizing Pathogen Dx. (PDX; SOP-076)

Analyte	Result	Limit	LOQ
Aspergillus flavus	ND	ND	Not Detected in 1 gram
Aspergillus fumigatus	ND	ND	Not Detected in 1 gram
Aspergillus niger	ND	ND	Not Detected in 1 gram
Aspergillus terreus	ND	ND	Not Detected in 1 gram
E. coli (STEC)	ND	ND	Not Detected in 1 gram
Salmonella	ND	ND	Not Detected in 1 gram

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Mycotoxin Results

10/8/2019

Mycotoxin analysis utilizing Liquid Chromatography – Mass Spectrometry (LC-MSMS; SOP-070) - **Limit units: µg/kg**

Analyte	µg/kg	Limit	LOD µg/kg	LOQ µg/kg
Aflatoxin B1	ND		1.19	3.9
Aflatoxin B2	ND		1.19	3.9
Aflatoxin G1	ND		1.19	3.9
Aflatoxin G2	ND		1.19	3.9
Ochratoxin A	ND	20	2.4	8.1
Total Aflatoxins	ND	20	1.19	3.9

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Heavy Metals Results

10/6/2019

Heavy metals analysis utilizing Inductively Coupled Plasma Mass Spectrometry (ICP-MS; SOP-072) - **Limit units: µg/g**

Analyte	µg/g	Limit	LOD µg/g	LOQ µg/g
Arsenic	ND	0.2	0.0078	0.022
Cadmium	0.152	0.2	0.0078	0.024
Lead	0.027	0.5	0.0039	0.0126
Mercury	ND	0.1	0.0058	0.0175

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