

CERTIFICATE OF ANALYSIS

Sample Name: Dr.Ganja Pineberry 3
Steep Hill ID: BK75427
Batch ID: O102219AC
Sample Type: Flower
Date Received: 10/23/2019

Customer: Dr.Ganja

Cannabinoid Results – Extended Cannabinoids**10/25/2019**

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	0.047	0.47			0.0140	0.180
CBCA	0.67	6.7			0.0054	0.180
CBD	0.36	3.6			0.062	0.36
CBDA	15.0	150			0.021	0.180
CBDV	ND	ND			0.061	0.36
CBDVA	0.105	1.05			0.025	0.180
CBG	0.065	0.65			0.027	0.180
CBGA	0.35	3.5			0.021	0.180
CBLA	ND	ND			0.022	0.180
CBN	ND	ND			0.0068	0.180
CBNA	ND	ND			0.0061	0.180
THC	0.057	0.57			0.028	0.180
Δ 8-THC	ND	ND			0.055	0.36
THCA	0.56	5.6			0.028	0.180
THCV	ND	ND			0.039	0.36
THCVA	ND	ND			0.033	0.180
Total	17.2	172				

Total THC	Total CBD
0.55 %	13.5 %
5.5 mg/g	135 mg/g

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Travis Ruthenburg
Chief Science Officer
Date: 10/25/2019

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Terpenoid Results - Extended Terpenes
10/31/2019

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	< LOQ	< LOQ	0.0043	0.144	Linalool	0.021	0.21	0.00175	0.144
endo-Borneol	< LOQ	< LOQ	0.00033	0.162	Menthol	ND	ND	0.0029	0.144
Camphene	ND	ND	0.00056	0.144	β-Myrcene	2.3	23	0.00184	0.144
Camphor	ND	ND	0.00122	0.31	Nerol	ND	ND	0.0118	0.144
3-Carene	ND	ND	0.00057	0.144	cis-Nerolidol	ND	ND	0.0080	0.144
Caryophyllene Oxide	< LOQ	< LOQ	0.00131	0.144	trans-Nerolidol	ND	ND	0.0112	0.144
β-Caryophyllene	0.24	2.4	0.0047	0.144	cis-β-Ocimene	0.066	0.66	0.0026	0.108
α-Cedrene	ND	ND	0.0020	0.162	trans-β-Ocimene	< LOQ	< LOQ	0.0029	0.054
Cedrol	ND	ND	0.0076	0.144	α-Phellandrene	ND	ND	0.00168	0.144
Citronellol	ND	ND	0.0152	0.144	Phytol 1	ND	ND	0.0031	0.054
Eucalyptol	ND	ND	0.0029	0.144	Phytol 2	ND	ND	0.0036	0.090
α-Farnesene	0.0054	0.054	0.021	0.049	α-Pinene	0.158	1.58	0.00048	0.162
β-Farnesene	0.063	0.63	0.0073	0.180	β-Pinene	0.065	0.65	0.00036	0.144
Fenchol	< LOQ	< LOQ	0.00114	0.162	Pulegone	ND	ND	0.0042	0.144
Fenchone	ND	ND	0.00071	0.144	Sabinene	ND	ND	0.00034	0.144
Geraniol	ND	ND	0.022	0.144	Sabinene Hydrate	ND	ND	0.0032	0.144
Geranyl Acetate	ND	ND	0.0064	0.23	α-Terpinene	ND	ND	0.00074	0.162
Guaiol	0.056	0.56	0.0037	0.162	γ-Terpinene	ND	ND	0.00079	0.144
α-Humulene	0.057	0.57	0.00073	0.144	α-Terpineol	0.0172	0.172	0.0032	0.144
Isoborneol	ND	ND	0.00073	0.144	Terpinolene	ND	ND	0.00127	0.162
Isopulegol	ND	ND	0.0065	0.144	Valencene	< LOQ	< LOQ	0.0061	0.144
Limonene	0.091	0.91	0.00081	0.144	Total	3.1	31		

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Residual Pesticides Results
10/26/2019

 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	0.077	Fludioxonil	ND	0.1	0.0040	0.0134
Acephate	ND	0.1	0.0040	0.0134	Hexythiazox	ND	0.1	0.0041	0.0136
Acequinocyl	ND	0.1	0.0041	0.0136	Imazalil	ND	ND	0.0040	0.0134
Acetamiprid	ND	0.1	0.0041	0.0136	Imidacloprid	ND	5	0.0041	0.0136
Aldicarb	ND	ND	0.0040	0.0134	Kresoxim-methyl	ND	0.1	0.0040	0.0134
Azoxystrobin	ND	0.1	0.0040	0.0134	Malathion	ND	0.5	0.0041	0.0136
Bifenazate	ND	0.1	0.0040	0.0134	Metaxyl	ND	2	0.0041	0.0136
Bifenthrin	ND	3	0.0040	0.0134	Methiocarb	ND	ND	0.0110	0.037
Boscalid	ND	0.1	0.0041	0.0138	Methomyl	ND	1	0.0040	0.0134
Captan	ND	0.7	0.104	0.35	Methyl Parathion	ND	ND	0.0113	0.038
Carbaryl	ND	0.5	0.0041	0.0136	Mevinphos	ND	ND	0.0045	0.0151
Carbofuran	ND	ND	0.0040	0.0132	Myclobutanil	ND	0.1	0.0040	0.0134
Chlorantraniliprole	ND	10	0.0040	0.0134	Naled	ND	0.1	0.0040	0.0134
Chlordane	ND	ND	0.0069	0.023	Oxamyl	ND	0.5	0.0040	0.0134
Chlorfenapyr	ND	ND	0.023	0.078	Paclobutrazol	ND	ND	0.0040	0.0134
Chlorpyrifos	ND	ND	0.0041	0.0136	Pentachloronitrobenzene	ND	0.1	0.0113	0.038
Clofentezine	ND	0.1	0.0041	0.0136	Permethrin	ND	0.5	0.038	0.127
Coumaphos	ND	ND	0.0040	0.0134	Phosmet	ND	0.1	0.0040	0.0134
Cyfluthrin	ND	2	0.054	0.179	Piperonyl Butoxide	ND	3	0.0041	0.0136
Cypermethrin	ND	1	0.054	0.179	Prallethrin	ND	0.1	0.024	0.079
Daminozide	ND	ND	0.0110	0.037	Propiconazole	ND	0.1	0.0111	0.037
Diazinon	ND	0.1	0.0041	0.0136	Propoxur	ND	ND	0.0040	0.0132
Dichlorvos	ND	ND	0.0111	0.037	Pyrethrins	ND	0.5	0.031	0.102
Dimethoate	ND	ND	0.0040	0.0134	Pyridaben	ND	0.1	0.0040	0.0134
Dimethomorph	ND	2	0.0048	0.0161	Spinetoram	ND	0.1	0.0030	0.0102
Ethoprophos	ND	ND	0.0040	0.0134	Spinosad	ND	0.1	0.0040	0.0134
Etofenprox	ND	ND	0.0040	0.0134	Spiromesifen	ND	0.1	0.0112	0.037
Etoxazole	ND	0.1	0.0041	0.0136	Spirotetramat	ND	0.1	0.0041	0.0136
Fenhexamid	ND	0.1	0.0040	0.0134	Spiroxamine	ND	ND	0.0040	0.0132
Fenoxycarb	ND	ND	0.0040	0.0134	Tebuconazole	ND	0.1	0.0040	0.0134
Fenpyroximate	ND	0.1	0.0040	0.0134	Thiacloprid	ND	ND	0.0040	0.0132
Fipronil	ND	ND	0.0040	0.0134	Thiamethoxam	ND	5	0.0041	0.0136
Flonicamid	ND	0.1	0.0041	0.0136	Trifloxystrobin	ND	0.1	0.0040	0.0134

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Microbial Impurities Results

10/28/2019

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

10/26/2019

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		1.27	4.2
Aflatoxin B2	ND		1.27	4.2
Aflatoxin G1	ND		1.27	4.2
Aflatoxin G2	ND		1.27	4.2
Ochratoxin A	ND	20	2.6	8.6
Total Aflatoxins	ND	20	1.27	4.2

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Heavy Metals Results

10/25/2019

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	< LOQ	0.2	0.0070	0.020
Cadmium	0.027	0.2	0.0070	0.022
Lead	0.033	0.5	0.0035	0.0113
Mercury	ND	0.1	0.0052	0.0157

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