

CERTIFICATE OF ANALYSIS

Sample Name: Dr.Ganja Suver Haze 3
Steep Hill ID: BK75428
Batch ID: O102219AD
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	0.066	0.66			0.0155	0.198
CBCA	1.20	12.0			0.0059	0.198
CBD	0.44	4.4			0.069	0.40
CBDA	24	240			0.023	0.198
CBDV	ND	ND			0.067	0.40
CBDVA	0.121	1.21			0.027	0.198
CBG	0.052	0.52			0.029	0.198
CBGA	0.58	5.8			0.023	0.198
CBLA	ND	ND			0.024	0.198
CBN	ND	ND			0.0075	0.198
CBNA	ND	ND			0.0067	0.198
THC	ND	ND			0.031	0.198
Δ8-THC	ND	ND			0.061	0.40
THCA	0.90	9.0			0.031	0.198
THCV	ND	ND			0.043	0.40
THCVA	ND	ND			0.036	0.198
Total	28	280				

Total THC	Total CBD
0.78 %	22 %
7.8 mg/g	220 mg/g

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

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Page 1 of 1

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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	0.0170	0.170	0.0047	0.159	Linalool	0.033	0.33	0.00193	0.159
endo-Borneol	< LOQ	< LOQ	0.00036	0.178	Menthol	ND	ND	0.0032	0.159
Camphene	ND	ND	0.00062	0.159	β -Myrcene	2.5	25	0.0020	0.159
Camphor	ND	ND	0.00135	0.34	Nerol	ND	ND	0.0130	0.159
3-Carene	ND	ND	0.00063	0.159	cis-Nerolidol	ND	ND	0.0088	0.159
Caryophyllene Oxide	< LOQ	< LOQ	0.00144	0.159	trans-Nerolidol	ND	ND	0.0123	0.159
β -Caryophyllene	0.47	4.7	0.0051	0.159	cis- β -Ocimene	0.23	2.3	0.0028	0.119
α -Cedrene	ND	ND	0.0022	0.178	trans- β -Ocimene	0.0064	0.064	0.0032	0.059
Cedrol	ND	ND	0.0084	0.159	α -Phellandrene	ND	ND	0.00186	0.159
Citronellol	ND	ND	0.0168	0.159	Phytol 1	ND	ND	0.0034	0.059
Eucalyptol	ND	ND	0.0032	0.159	Phytol 2	ND	ND	0.0039	0.099
α -Farnesene	0.0060	0.060	0.023	0.054	α -Pinene	0.058	0.58	0.00053	0.178
β -Farnesene	0.089	0.89	0.0080	0.198	β -Pinene	0.034	0.34	0.00039	0.159
Fenchol	< LOQ	< LOQ	0.00126	0.178	Pulegone	ND	ND	0.0046	0.159
Fenchone	ND	ND	0.00078	0.159	Sabinene	ND	ND	0.00038	0.159
Geraniol	ND	ND	0.025	0.159	Sabinene Hydrate	ND	ND	0.0035	0.159
Geranyl Acetate	ND	ND	0.0070	0.26	α -Terpinene	ND	ND	0.00081	0.178
Guaiol	0.057	0.57	0.0041	0.178	γ -Terpinene	ND	ND	0.00087	0.159
α -Humulene	0.128	1.28	0.00080	0.159	α -Terpineol	0.0168	0.168	0.0036	0.159
Isoborneol	ND	ND	0.00080	0.159	Terpinolene	ND	ND	0.00140	0.178
Isopulegol	ND	ND	0.0072	0.159	Valencene	< LOQ	< LOQ	0.0067	0.159
Limonene	0.128	1.28	0.00089	0.159	Total	3.8	38		

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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	0.022	0.075	Fludioxonil	ND	0.1	0.0039	0.0130
Acephate	ND	0.1	0.0039	0.0130	Hexythiazox	ND	0.1	0.0040	0.0132
Acequinocyl	ND	0.1	0.0040	0.0132	Imazalil	ND	ND	0.0039	0.0130
Acetamiprid	ND	0.1	0.0040	0.0132	Imidacloprid	ND	5	0.0040	0.0132
Aldicarb	ND	ND	0.0039	0.0130	Kresoxim-methyl	ND	0.1	0.0039	0.0130
Azoxystrobin	ND	0.1	0.0039	0.0130	Malathion	ND	0.5	0.0040	0.0132
Bifenazate	ND	0.1	0.0039	0.0130	Metaxyl	ND	2	0.0040	0.0132
Bifenthrin	ND	3	0.0039	0.0130	Methiocarb	ND	ND	0.0107	0.036
Boscalid	ND	0.1	0.0040	0.0134	Methomyl	ND	1	0.0039	0.0130
Captan	ND	0.7	0.101	0.34	Methyl Parathion	ND	ND	0.0109	0.036
Carbaryl	ND	0.5	0.0040	0.0132	Mevinphos	ND	ND	0.0044	0.0146
Carbofuran	ND	ND	0.0038	0.0128	Myclobutanil	ND	0.1	0.0039	0.0130
Chlorantraniliprole	ND	10	0.0039	0.0130	Naled	ND	0.1	0.0039	0.0130
Chlordane	ND	ND	0.0067	0.022	Oxamyl	ND	0.5	0.0039	0.0130
Chlorfenapyr	ND	ND	0.023	0.075	Paclobutrazol	ND	ND	0.0039	0.0130
Chlorpyrifos	ND	ND	0.0040	0.0132	Pentachloronitrobenzene	ND	0.1	0.0109	0.036
Clofentezine	ND	0.1	0.0040	0.0132	Permethrin	ND	0.5	0.037	0.123
Coumaphos	ND	ND	0.0039	0.0130	Phosmet	ND	0.1	0.0039	0.0130
Cyfluthrin	ND	2	0.052	0.173	Piperonyl Butoxide	ND	3	0.0040	0.0132
Cypermethrin	ND	1	0.052	0.173	Prallethrin	ND	0.1	0.023	0.076
Daminozide	ND	ND	0.0106	0.035	Propiconazole	ND	0.1	0.0107	0.036
Diazinon	ND	0.1	0.0040	0.0132	Propoxur	ND	ND	0.0038	0.0128
Dichlorvos	ND	ND	0.0107	0.036	Pyrethrins	ND	0.5	0.030	0.099
Dimethoate	ND	ND	0.0039	0.0130	Pyridaben	ND	0.1	0.0039	0.0130
Dimethomorph	ND	2	0.0047	0.0156	Spinetoram	ND	0.1	0.0030	0.0098
Ethoprophos	ND	ND	0.0039	0.0130	Spinosad	ND	0.1	0.0039	0.0130
Etofenprox	ND	ND	0.0039	0.0130	Spiromesifen	ND	0.1	0.0108	0.036
Etoxazole	ND	0.1	0.0040	0.0132	Spirotetramat	ND	0.1	0.0040	0.0132
Fenhexamid	ND	0.1	0.0039	0.0130	Spiroxamine	ND	ND	0.0038	0.0128
Fenoxycarb	ND	ND	0.0039	0.0130	Tebuconazole	ND	0.1	0.0039	0.0130
Fenpyroximate	ND	0.1	0.0039	0.0130	Thiacloprid	ND	ND	0.0038	0.0128
Fipronil	ND	ND	0.0039	0.0130	Thiamethoxam	ND	5	0.0040	0.0132
Flonicamid	ND	0.1	0.0040	0.0132	Trifloxystrobin	ND	0.1	0.0039	0.0130

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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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Page 1 of 1

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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		1.23	4.1
Aflatoxin B2	ND		1.23	4.1
Aflatoxin G1	ND		1.23	4.1
Aflatoxin G2	ND		1.23	4.1
Ochratoxin A	ND	20	2.5	8.3
Total Aflatoxins	ND	20	1.23	4.1

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Page 1 of 1

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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	0.0079	0.023
Cadmium	0.051	0.2	0.0079	0.025
Lead	0.022	0.5	0.0040	0.0128
Mercury	ND	0.1	0.0059	0.0178

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Page 1 of 1