

# CERTIFICATE OF ANALYSIS

Sample Name: Dr.Ganja Lifter 3  
Steep Hill ID: BK73887  
Batch ID: S092519Y  
Sample Type: Flower  
Date Received: 9/25/2019

Customer: Dr.Ganja

**Cannabinoid Results – Extended Cannabinoids****9/27/2019**

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	ND	ND			0.0155	0.199
CBCA	0.73	7.3			0.0060	0.199
CBD	0.24	2.4			0.069	0.40
CBDA	16.0	160			0.023	0.199
CBDV	ND	ND			0.067	0.40
CBDVA	0.103	1.03			0.027	0.199
CBG	ND	ND			0.029	0.199
CBGA	0.41	4.1			0.023	0.199
CBLA	0.00151	0.0151			0.024	0.199
CBN	ND	ND			0.0076	0.199
CBNA	ND	ND			0.0068	0.199
THC	ND	ND			0.031	0.199
Δ8-THC	ND	ND			0.061	0.40
THCA	0.63	6.3			0.031	0.199
THCV	ND	ND			0.043	0.40
THCVA	ND	ND			0.037	0.199
Total	18.1	181				

Total THC	Total CBD
0.56 %	14.3 %
5.6 mg/g	143 mg/g

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



Travis Ruthenberg  
Chief Science Officer  
Date: 9/28/2019

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**Terpenoid Results - Extended Terpenes**
**10/1/2019**

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	0.077	0.77	0.0048	0.159	Linalool	0.033	0.33	0.00193	0.159
endo-Borneol	< LOQ	< LOQ	0.00036	0.179	Menthol	ND	ND	0.0032	0.159
Camphene	ND	ND	0.00062	0.159	β-Myrcene	1.35	13.5	0.0020	0.159
Camphor	ND	ND	0.00135	0.34	Nerol	ND	ND	0.0131	0.159
3-Carene	ND	ND	0.00063	0.159	cis-Nerolidol	ND	ND	0.0088	0.159
Caryophyllene Oxide	< LOQ	< LOQ	0.00145	0.159	trans-Nerolidol	0.027	0.27	0.0123	0.159
β-Caryophyllene	0.41	4.1	0.0051	0.159	cis-β-Ocimene	0.154	1.54	0.0028	0.119
α-Cedrene	ND	ND	0.0022	0.179	trans-β-Ocimene	< LOQ	< LOQ	0.0032	0.060
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	0.060
Eucalyptol	ND	ND	0.0032	0.159	Phytol 2	ND	ND	0.0039	0.099
α-Farnesene	0.0110	0.110	0.023	0.054	α-Pinene	0.042	0.42	0.00053	0.179
β-Farnesene	0.041	0.41	0.0080	0.199	β-Pinene	0.023	0.23	0.00039	0.159
Fenchol	< LOQ	< LOQ	0.00126	0.179	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	0.00082	0.179
Guaiol	ND	ND	0.0041	0.179	γ-Terpinene	ND	ND	0.00088	0.159
α-Humulene	0.141	1.41	0.00081	0.159	α-Terpineol	0.0168	0.168	0.0036	0.159
Isoborneol	ND	ND	0.00081	0.159	Terpinolene	ND	ND	0.00140	0.179
Isopulegol	ND	ND	0.0072	0.159	Valencene	< LOQ	< LOQ	0.0068	0.159
Limonene	0.054	0.54	0.00089	0.159	Total	2.4	24		

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**Residual Pesticides Results**
**9/28/2019**

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	0.021	0.069	Fludioxonil	ND	0.1	0.0110	0.036
Acephate	ND	0.1	0.0046	0.0151	Hexythiazox	ND	0.1	0.0049	0.0162
Acequinocyl	ND	0.1	0.021	0.070	Imazalil	ND	ND	0.0046	0.0153
Acetamiprid	ND	0.1	0.0047	0.0155	Imidacloprid	ND	5	0.0049	0.0162
Aldicarb	ND	ND	0.0047	0.0155	Kresoxim-methyl	ND	0.1	0.0049	0.0160
Azoxystrobin	ND	0.1	0.0046	0.0153	Malathion	ND	0.5	0.0049	0.0162
Bifenazate	ND	0.1	0.0046	0.0153	Metaxyl	ND	2	0.0049	0.0160
Bifenthrin	ND	3	0.0110	0.036	Methiocarb	ND	ND	0.0046	0.0153
Boscalid	ND	0.1	0.0047	0.0157	Methomyl	ND	1	0.0049	0.0160
Captan	ND	0.7	0.089	0.30	Methyl Parathion	ND	ND	0.0113	0.037
Carbaryl	ND	0.5	0.0047	0.0155	Mevinphos	ND	ND	0.0089	0.029
Carbofuran	ND	ND	0.0046	0.0153	Myclobutanil	ND	0.1	0.0049	0.0162
Chlorantraniliprole	ND	10	0.0046	0.0153	Naled	ND	0.1	0.0049	0.0162
Chlordane	ND	ND	0.0127	0.042	Oxamyl	ND	0.5	0.0049	0.0162
Chlorfenapyr	ND	ND	0.022	0.073	Paclobutrazol	ND	ND	0.0046	0.0153
Chlorpyrifos	ND	ND	0.0047	0.0155	Pentachloronitrobenzene	ND	0.1	0.0118	0.039
Clofentezine	ND	0.1	0.0047	0.0155	Permethrin	ND	0.5	0.025	0.083
Coumaphos	ND	ND	0.0046	0.0153	Phosmet	ND	0.1	0.0048	0.0159
Cyfluthrin	ND	2	0.089	0.30	Piperonyl Butoxide	ND	3	0.0049	0.0162
Cypermethrin	ND	1	0.048	0.157	Prallethrin	ND	0.1	0.022	0.074
Daminozide	ND	ND	0.021	0.069	Propiconazole	ND	0.1	0.0049	0.0160
Diazinon	ND	0.1	0.0047	0.0155	Propoxur	ND	ND	0.0046	0.0153
Dichlorvos	ND	ND	0.0047	0.0155	Pyrethrins	ND	0.5	0.053	0.176
Dimethoate	ND	ND	0.0046	0.0153	Pyridaben	ND	0.1	0.0049	0.0160
Dimethomorph	ND	2	0.0032	0.0105	Spinetoram	ND	0.1	0.0037	0.0121
Ethoprophos	ND	ND	0.0047	0.0155	Spinosad	ND	0.1	0.0048	0.0159
Etofenprox	ND	ND	0.0046	0.0153	Spiromesifen	ND	0.1	0.022	0.074
Etoxazole	ND	0.1	0.0047	0.0155	Spirotetramat	ND	0.1	0.0049	0.0162
Fenhexamid	ND	0.1	0.0046	0.0153	Spiroxamine	ND	ND	0.0047	0.0155
Fenoxycarb	ND	ND	0.0047	0.0155	Tebuconazole	ND	0.1	0.0049	0.0160
Fenpyroximate	ND	0.1	0.0046	0.0153	Thiacloprid	ND	ND	0.0046	0.0153
Fipronil	ND	ND	0.0046	0.0153	Thiamethoxam	ND	5	0.0049	0.0160
Flonicamid	ND	0.1	0.0047	0.0155	Trifloxystrobin	ND	0.1	0.0049	0.0160

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## Microbial Impurities Results

9/30/2019

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

9/27/2019

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		1.12	3.7
Aflatoxin B2	ND		1.12	3.7
Aflatoxin G1	ND		1.12	3.7
Aflatoxin G2	ND		1.12	3.7
Ochratoxin A	ND	20	5.0	16.6
Total Aflatoxins	ND	20	1.12	3.7

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## Heavy Metals Results

9/26/2019

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	0.0072	0.021
Cadmium	0.085	0.2	0.0072	0.022
Lead	0.030	0.5	0.0036	0.0117
Mercury	ND	0.1	0.0054	0.0161

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