

**CERTIFICATE OF ANALYSIS**Sample Name: Dr.Ganja Kimber Kush  
Steep Hill ID: BK75234  
Batch ID: O102119AB  
Sample Type: Flower  
Date Received: 10/21/2019

Customer: Dr.Ganja

**Cannabinoid Results – Extended Cannabinoids****10/23/2019**

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			0.0149	0.191
CBCA	0.66	6.6			0.0057	0.191
CBD	0.39	3.9			0.066	0.38
CBDA	17.1	171			0.022	0.191
CBDV	ND	ND			0.065	0.38
CBDVA	0.146	1.46			0.026	0.191
CBG	ND	ND			0.028	0.191
CBGA	0.73	7.3			0.022	0.191
CBLA	ND	ND			0.023	0.191
CBN	ND	ND			0.0073	0.191
CBNA	ND	ND			0.0065	0.191
THC	ND	ND			0.029	0.191
$\Delta$ 8-THC	ND	ND			0.059	0.38
THCA	0.62	6.2			0.030	0.191
THCV	ND	ND			0.042	0.38
THCVA	ND	ND			0.035	0.191
Total	19.6	196				

Total THC	Total CBD
0.54 %	15.4 %
5.4 mg/g	154 mg/g

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

Travis Ruthenburg  
Chief Science Officer  
Date: 10/23/2019

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**Terpenoid Results - Extended Terpenes**
**10/29/2019**

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
$\alpha$ -Bisabolol	0.028	0.28	0.0023	0.077	Linalool	0.068	0.68	0.00093	0.077
endo-Borneol	< LOQ	< LOQ	0.000174	0.086	Menthol	ND	ND	0.00153	0.077
Camphene	< LOQ	< LOQ	0.00030	0.077	$\beta$ -Myrcene	0.94	9.4	0.00098	0.077
Camphor	ND	ND	0.00065	0.163	Nerol	ND	ND	0.0063	0.077
3-Carene	ND	ND	0.00030	0.077	cis-Nerolidol	ND	ND	0.0042	0.077
Caryophyllene Oxide	0.0098	0.098	0.00070	0.077	trans-Nerolidol	0.024	0.24	0.0059	0.077
$\beta$ -Caryophyllene	0.85	8.5	0.0025	0.077	cis- $\beta$ -Ocimene	ND	ND	0.00137	0.057
$\alpha$ -Cedrene	ND	ND	0.00108	0.086	trans- $\beta$ -Ocimene	ND	ND	0.00155	0.029
Cedrol	ND	ND	0.0041	0.077	$\alpha$ -Phellandrene	ND	ND	0.00090	0.077
Citronellol	ND	ND	0.0081	0.077	Phytol 1	ND	ND	0.00165	0.029
Eucalyptol	< LOQ	< LOQ	0.00153	0.077	Phytol 2	0.0099	0.099	0.00189	0.048
$\alpha$ -Farnesene	0.0064	0.064	0.0109	0.026	$\alpha$ -Pinene	0.175	1.75	0.00025	0.086
$\beta$ -Farnesene	0.188	1.88	0.0039	0.096	$\beta$ -Pinene	0.072	0.72	0.000190	0.077
Fenchol	0.0192	0.192	0.00061	0.086	Pulegone	ND	ND	0.0022	0.077
Fenchone	ND	ND	0.00038	0.077	Sabinene	ND	ND	0.000182	0.077
Geraniol	ND	ND	0.0119	0.077	Sabinene Hydrate	< LOQ	< LOQ	0.00169	0.077
Geranyl Acetate	ND	ND	0.0034	0.124	$\alpha$ -Terpinene	ND	ND	0.00039	0.086
Guaiol	< LOQ	< LOQ	0.00197	0.086	$\gamma$ -Terpinene	< LOQ	< LOQ	0.00042	0.077
$\alpha$ -Humulene	0.27	2.7	0.00039	0.077	$\alpha$ -Terpineol	0.026	0.26	0.00171	0.077
Isoborneol	ND	ND	0.00039	0.077	Terpinolene	< LOQ	< LOQ	0.00067	0.086
Isopulegol	ND	ND	0.0035	0.077	Valencene	0.0084	0.084	0.0032	0.077
Limonene	0.169	1.69	0.00043	0.077	Total	2.9	29		

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Dr.Ganja Kimber Kush

<b>Batch ID:</b>	O102119AB	<b>Test ID:</b>	8193403.005
<b>Reported:</b>	1-Nov-2019	<b>Method:</b>	TM16
<b>Type:</b>	Plant		
<b>Test:</b>	Pesticides		


## PESTICIDE RESIDUE

Compound	Dynamic Range (ppb)	Result (ppb)	Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	45 - 2089	ND*	Malathion	271 - 2089	ND*
Acetamiprid	45 - 2089	ND*	Metalaxyl	271 - 2089	ND*
Avermectin	271 - 2089	ND*	Methiocarb	45 - 2089	ND*
Azoxystrobin	45 - 2089	ND*	Methomyl	45 - 2089	ND*
Bifenazate	271 - 2089	ND*	MGK 264 1	271 - 2089	ND*
Boscalid	271 - 2089	ND*	MGK 264 2	271 - 2089	ND*
Carbaryl	45 - 2089	ND*	Myclobutanil	45 - 2089	ND*
Carbofuran	45 - 2089	ND*	Naled	271 - 2089	ND*
Chlorantraniliprole	271 - 2089	ND*	Oxamyl	45 - 2089	ND*
Chlorpyrifos	271 - 2089	ND*	Paclobutrazol	45 - 2089	ND*
Clofentezine	271 - 2089	ND*	Permethrin	271 - 2089	ND*
Diazinon	271 - 2089	ND*	Phosmet	271 - 2089	ND*
Dichlorvos	271 - 2089	ND*	Prophos	271 - 2089	ND*
Dimethoate	45 - 2089	ND*	Propoxur	45 - 2089	ND*
E-Fenproximate	271 - 2089	ND*	Pyridaben	45 - 2089	ND*
Etofenprox	45 - 2089	ND*	Spinosad A	45 - 2089	ND*
Etoxazole	45 - 2089	ND*	Spinosad D	45 - 2089	ND*
Fenoxycarb	271 - 2089	ND*	Spiromesifen	45 - 2089	ND*
Fipronil	271 - 2089	ND*	Spirotetramat	271 - 2089	ND*
Flonicamid	45 - 2089	ND*	Spiroxamine 1	45 - 2089	ND*
Fludioxonil	271 - 2089	ND*	Spiroxamine 2	45 - 2089	ND*
Hexythiazox	271 - 2089	ND*	Tebuconazole	271 - 2089	ND*
Imazalil	45 - 2089	ND*	Thiacloprid	45 - 2089	ND*
Imidacloprid	45 - 2089	ND*	Thiamethoxam	45 - 2089	ND*
Kresoxim-methyl	271 - 2089	ND*	Trifloxystrobin	45 - 2089	ND*


\* ND = None Detected (Defined by Dynamic Range of the method)

N/A

## FINAL APPROVAL


 Sam Smith  
 1-Nov-2019  
 8:56 AM

PREPARED BY / DATE


 Greg Zimpfer  
 1-Nov-2019  
 9:44 AM

APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC.

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Customer: Dr.Ganja

## Microbial Impurities Results

10/25/2019

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		1.29	4.3
Aflatoxin B2	ND		1.29	4.3
Aflatoxin G1	ND		1.29	4.3
Aflatoxin G2	ND		1.29	4.3
Ochratoxin A	ND	20	2.6	8.8
Total Aflatoxins	ND	20	1.29	4.3

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## Heavy Metals Results

10/23/2019

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	0.0074	0.021
Cadmium	0.040	0.2	0.0074	0.023
Lead	0.0180	0.5	0.0037	0.0120
Mercury	ND	0.1	0.0055	0.0166

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