



# Steep Hill California

1005 PARKER STREET, BERKELEY, CA 94710 LICENSE #: C8-0000082-LIC

## CERTIFICATE OF ANALYSIS

Sample Name: CBD Kief Joint  
 Steep Hill ID: BK81108  
 Batch ID:  
 Sample Type: PreRoll  
 Date Received: 2/4/2020  
 Date Reported: 2/7/2020  
 Pkg. Mass: 1.58 g  
 # of Servings: 1

Customer: Cultivated Minds Innovation

Cannabinoids	Residual Pesticides	Microbial Impurities	Mycotoxins	Heavy Metals	Water Activity	Residual Solvents	Foreign Material
Tested	NT	Tested	NT	NT	NT	Tested	NT



0.800 %  
8.00 mg/g

12.6 mg/pkg  
12.6 mg/serv

24.3 %  
243 mg/g

383 mg/pkg  
383 mg/serv

31.6 %  
316 mg/g

500 mg/pkg  
500 mg/serv

Leah Shaffer  
 Chief Science Officer  
 Date: 2/7/2020

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### Cannabinoid Results

2/6/2020

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

Analyte	%	mg/g	% (Dry)	mg/g (Dry)	mg/pkg	mg/serv	LOD mg/g	LOQ mg/g
CBD	3.47	34.7			54.9	54.9	0.0655	0.189
CBDA	23.7	237			374	374	0.0216	0.189
CBG	0.726	7.26			11.5	11.5	0.0280	0.189
CBN	ND	ND			ND	ND	0.00719	0.189
THC	0.210	2.10			3.31	3.31	0.0291	0.189
THCA	0.673	6.73			10.6	10.6	0.0299	0.189
CBC	0.365	3.65			5.76	5.76	0.0148	0.189
CBCA	1.71	17.1			27.0	27.0	0.00568	0.189
CBDV	0.0227	0.227			0.359	0.359	0.0640	0.379
CBDVA	0.318	3.18			5.02	5.02	0.0261	0.189
CBGA	0.473	4.73			7.47	7.47	0.0220	0.189
CBL	ND	ND			ND	ND	0.0560	0.379
CBLA	0.0166	0.166			0.262	0.262	0.0227	0.189
CBNA	0.00507	0.0507			0.0801	0.0801	0.00643	0.189
delta-8-THC	ND	ND			ND	ND	0.0579	0.379
THCV	ND	ND			ND	ND	0.0413	0.379
THCVA	ND	ND			ND	ND	0.0348	0.189
Total	31.6	316			500	500		

### Terpenoid Results

NT

Standard 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	NT	NT	NT	NT	Linalool	NT	NT	NT	NT
endo-Borneol	NT	NT	NT	NT	Menthol	NT	NT	NT	NT
Camphene	NT	NT	NT	NT	β-Myrcene	NT	NT	NT	NT
Camphor	NT	NT	NT	NT	Nerol	NT	NT	NT	NT
3-Carene	NT	NT	NT	NT	cis-Nerolidol	NT	NT	NT	NT
Caryophyllene Oxide	NT	NT	NT	NT	trans-Nerolidol	NT	NT	NT	NT
β-Caryophyllene	NT	NT	NT	NT	cis-beta-Ocimene	NT	NT	NT	NT
alpha-Cedrene	NT	NT	NT	NT	trans-beta-Ocimene	NT	NT	NT	NT
Cedrol	NT	NT	NT	NT	alpha-Phellandrene	NT	NT	NT	NT
Citronellol	NT	NT	NT	NT	Phytol 1	NT	NT	NT	NT
Eucalyptol	NT	NT	NT	NT	Phytol 2	NT	NT	NT	NT
alpha-Farnesene	NT	NT	NT	NT	α-Pinene	NT	NT	NT	NT
beta-Farnesene	NT	NT	NT	NT	β-Pinene	NT	NT	NT	NT
Fenchol	NT	NT	NT	NT	Pulegone	NT	NT	NT	NT
Fenchone	NT	NT	NT	NT	Sabinene	NT	NT	NT	NT
Geraniol	NT	NT	NT	NT	Sabinene Hydrate	NT	NT	NT	NT
Geranyl Acetate	NT	NT	NT	NT	alpha-Terpinene	NT	NT	NT	NT
Guaiol	NT	NT	NT	NT	gamma-Terpinene	NT	NT	NT	NT
α-Humulene	NT	NT	NT	NT	alpha-Terpineol	NT	NT	NT	NT
Isoborneol	NT	NT	NT	NT	Terpinolene	NT	NT	NT	NT
Isopulegol	NT	NT	NT	NT	Valencene	NT	NT	NT	NT
Limonene	NT	NT	NT	NT	Total	NT	NT	NT	NT

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Chief Science Officer  
Date: 2/7/2020

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### Residual Pesticides Results

NT

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	NT	NT	NT	NT	Fludioxonil	NT	NT	NT	NT
Acephate	NT	NT	NT	NT	Hexythiazox	NT	NT	NT	NT
Acequinocyl	NT	NT	NT	NT	Imazalil	NT	NT	NT	NT
Acetamiprid	NT	NT	NT	NT	Imidacloprid	NT	NT	NT	NT
Aldicarb	NT	NT	NT	NT	Kresoxim-methyl	NT	NT	NT	NT
Azoxystrobin	NT	NT	NT	NT	Malathion	NT	NT	NT	NT
Bifenazate	NT	NT	NT	NT	Metaxyl	NT	NT	NT	NT
Bifenthrin	NT	NT	NT	NT	Methiocarb	NT	NT	NT	NT
Boscalid	NT	NT	NT	NT	Methomyl	NT	NT	NT	NT
Captan	NT	NT	NT	NT	Methyl Parathion	NT	NT	NT	NT
Carbaryl	NT	NT	NT	NT	Mevinphos	NT	NT	NT	NT
Carbofuran	NT	NT	NT	NT	Myclobutanil	NT	NT	NT	NT
Chlorantraniliprole	NT	NT	NT	NT	Naled	NT	NT	NT	NT
Chlordane	NT	NT	NT	NT	Oxamyl	NT	NT	NT	NT
Chlorfenapyr	NT	NT	NT	NT	Paclbutrazol	NT	NT	NT	NT
Chlorpyrifos	NT	NT	NT	NT	Pentachloronitrobenzene	NT	NT	NT	NT
Clofentezine	NT	NT	NT	NT	Permethrin	NT	NT	NT	NT
Coumaphos	NT	NT	NT	NT	Phosmet	NT	NT	NT	NT
Cyfluthrin	NT	NT	NT	NT	Piperonyl Butoxide	NT	NT	NT	NT
Cypermethrin	NT	NT	NT	NT	Prallethrin	NT	NT	NT	NT
Daminozide	NT	NT	NT	NT	Propiconazole	NT	NT	NT	NT
Diazinon	NT	NT	NT	NT	Propoxur	NT	NT	NT	NT
Dichlorvos	NT	NT	NT	NT	Pyrethrins	NT	NT	NT	NT
Dimethoate	NT	NT	NT	NT	Pyridaben	NT	NT	NT	NT
Dimethomorph	NT	NT	NT	NT	Spinetoram	NT	NT	NT	NT
Ethoprophos	NT	NT	NT	NT	Spinosad	NT	NT	NT	NT
Etofenprox	NT	NT	NT	NT	Spiromesifen	NT	NT	NT	NT
Etoxazole	NT	NT	NT	NT	Spirotetramat	NT	NT	NT	NT
Fenhexamid	NT	NT	NT	NT	Spiroxamine	NT	NT	NT	NT
Fenoxycarb	NT	NT	NT	NT	Tebuconazole	NT	NT	NT	NT
Fenpyroximate	NT	NT	NT	NT	Thiacloprid	NT	NT	NT	NT
Fipronil	NT	NT	NT	NT	Thiamethoxam	NT	NT	NT	NT
Flonicamid	NT	NT	NT	NT	Trifloxystrobin	NT	NT	NT	NT

### Residual Solvents Results

2/6/2020

Residual solvents and processing chemicals analysis utilizing Headspace Gas Chromatography – Mass Spectrometry (HS-GC-MS; SOP-010) - Limit units: µg/g

Analyte	µg/g	Limit	LOD µg/g	LOQ µg/g	Analyte	µg/g	Limit	LOD µg/g	LOQ µg/g
1,2 Dichloroethane	ND	1	0.00428	0.0610	n-Heptane	ND	5000	0.112	2.79
Acetone	3.62	5000	0.159	2.79	n-Hexane	ND	290	0.0336	3.49
Acetonitrile	ND	410	0.00486	0.494	Isopropanol	ND	5000	2.91	28.1
Benzene	ND	1	0.00230	0.0244	Methanol	< LOQ	3000	0.231	3.60
n-Butane	ND	5000	0.0481	0.507	Methylene Chloride	ND	1	0.000993	0.717
Chloroform	ND	1	0.00455	0.729	n-Pentane	ND	5000	0.0239	2.79
Ethanol	ND	5000	1.18	28.0	Propane	ND	5000	0.00859	0.200
Ethyl Acetate	ND	5000	0.849	28.0	Toluene	ND	890	0.164	1.07
Ethyl Ether	ND	5000	0.0665	2.81	Total Xylenes	ND	2170	0.0718	5.20
Ethylene Oxide	ND	1	0.0216	0.0604	Trichloroethylene	ND	1	0.00289	0.0970

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### Microbial Impurities Results

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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

### Mycotoxin Results

NT

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	NT	NT	NT	NT
Aflatoxin B2	NT	NT	NT	NT
Aflatoxin G1	NT	NT	NT	NT
Aflatoxin G2	NT	NT	NT	NT
Ochratoxin A	NT	NT	NT	NT
Total Aflatoxins	NT	NT	NT	NT

### Heavy Metals Results

NT

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	NT	NT	NT	NT
Cadmium	NT	NT	NT	NT
Lead	NT	NT	NT	NT
Mercury	NT	NT	NT	NT

### Foreign Material Results

NT

Foreign material analysis utilizing visual inspection (SOP-057)

Analyte	Pass/Fail
Visual Inspection	NT

### Moisture Results

NT

Moisture content analysis utilizing Moisture Balance (MB; SOP-055)

Analyte	%
Moisture	NT

### Water Activity Results

NT

Water Activity analysis utilizing Water Activity Meter (WAM; SOP-090) - Limit units: Aw

Analyte	Aw	Limit
Water Activity	NT	NT

<p>LOD: Limit of Detection  LOQ: Limit of Quantitation  NT: Not Tested  ND: Not Detected</p>
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Page 4 of 5



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### Photos



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Page 5 of 5