879 Federal Blvd
Denver, CO, 80204, USA

Kaycha Labs
RAW-ORGFS-CBD
N/A
Matrix: Concentrate

Certificate of Analysis

Sample:DE11015009-001
Harvest/Lot ID: O-CO2-YP5-28121-BT3
Seed to Sale# 1A4000B00010D25000000711
Batch Date: 10/08/21
Batch#: 2021-547A
Sample Size Received: 10 ml
Total Weight/Volume: N/A
Retail Product Size: 1 gram
Ordered : 10/13/21
sampled : 10/13/21
Completed: 10/22/21 Expires: 10/22/22
Sampling Method: SOP-024

Oct 28, 2021 | Hemplucid

License # 405R-00011
4844 N. 300 W. Ste. 202
Provo, UT, 84604, US

PASSED

PRODUCT IMAGE

SAFETY RESULTS

Pesticides	Heavy Metals	Microbials	Mycotoxins	Residuals Solvents	Filth	Water Activity	Moisture	Homogeneity
PASSED	PASSED	PASSED	PASSED	PASSED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED

MISC.

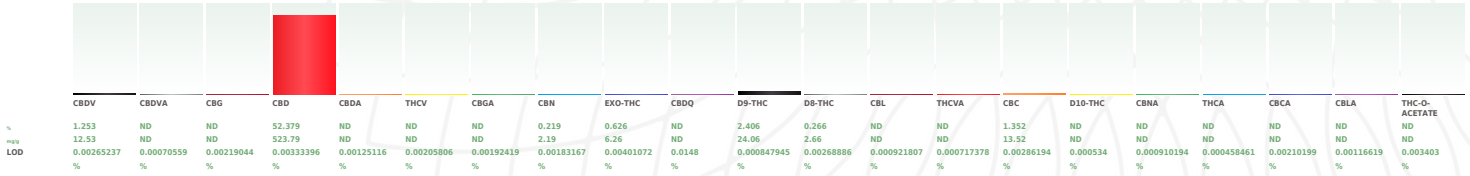
Terpenes
TESTED

CANNABINOID RESULTS

Total THC
2.406%

Total CBD
52.379%

Total Cannabinoids
58.501%



	CBDV	CBDVA	CBG	CBD	CBDA	THCV	CBGA	CBN	EXO-THC	CBDQ	D9-THC	D8-THC	CBL	THCVA	CBC	D10-THC	CBNA	THCA	CBCA	CBLA	THC-O-ACETATE
%	1.253	ND	ND	52.379	ND	ND	ND	0.219	0.626	ND	2.406	0.266	ND	ND	1.352	ND	ND	ND	ND	ND	ND
mg/g	12.53	ND	ND	523.79	ND	ND	ND	2.19	6.26	ND	24.06	2.66	ND	ND	13.52	ND	ND	ND	ND	ND	ND
LOD	0.00265237 %	0.00070559 %	0.00219044 %	0.00333396 %	0.00125116 %	0.00205806 %	0.00192419 %	0.00183167 %	0.00401072 %	0.0148 %	0.000847945 %	0.00268886 %	0.000921807 %	0.000717378 %	0.00286194 %	0.000534 %	0.000910194 %	0.000458461 %	0.00210199 %	0.00116619 %	0.003403 %

Cannabinoid Profile Test

Analyzed by	Weight	Extraction date :	Extracted By :
1253	0.1715g	10/21/21 04:10:27	1642

Analysis Method -SOP-020 (R15) **Reviewed On -** 10/22/21 09:46:26 **Batch Date :** 10/21/21 10:36:22
Analytical Batch -DE002564POT **Instrument Used :** Agilent 1100 "Liger" **Running On :** 10/21/21 13:09:33

Reagent	Dilution	Consums. ID	Consums. ID
101121.10	200	887159111147201	923C4-923AK
102021.R06		1119999	5079-525C6-525E
082521.R05		00307958	
100721.R01		R1KB34782	
		298076054	
		12211-108CC-108	

Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with DAD detection (HPLC-UV). Method SOP-022 (R13) for reporting. Lower limit of linearity for all cannabinoids is 1 mg/L.

Stephen Goldman
Lab Director

State License #
405R-00011 405-00008
ISO Accreditation # 4331.01

Signature

10/22/21
Signed On

879 Federal Blvd
Denver, CO, 80204, USA

Kaycha Labs

RAW-ORGFS-CBD
N/A
Matrix : Concentrate

Certificate of Analysis

PASSED

Hemplucid

4844 N. 300 W. Ste. 202
Provo, UT, 84604, US
Telephone: 7192318261
Email: sarah@hemplucid.com
License #: 405R-00011

Sample : DE11015009-001
Harvest/LOT ID: O-CO2-YP5-28121-BT3
Batch# : 2021-547A
Sampled : 10/13/21
Ordered : 10/13/21
Sample Size Received : 10 ml
Total Weight/Volume : N/A
Completed : 10/22/21 **Expires:** 10/22/22
Sample Method : SOP-024

Terpenes

TESTED

Terpenes	LOD(%)	mg/g	%	Result (%)
ALPHA-PINENE	0.002	ND	ND	
CAMPHENE	0.002	ND	ND	
BETA-PINENE	0.002	ND	ND	
MYRCENE	0.002	< 0.2	< 0.02	
DELTA-3-CARENE	0.002	ND	ND	
ALPHA-TERPINENE	0.002	ND	ND	
P-CYMENE	0.002	ND	ND	
LIMONENE	0.002	ND	ND	
EUCALYPTOL	0.002	ND	ND	
CIS-OCIMENE	0.002	ND	ND	
GAMMA-TERPINENE	0.002	ND	ND	
TERPINOLENE	0.002	ND	ND	
LINALOOL	0.002	< 0.2	< 0.02	
(-)-ISOPULEGOL	0.002	ND	ND	
BORNEOL	0.002	< 0.4	< 0.04	
MENTHOL	0.002	ND	ND	
ALPHA-TERPINEOL	0.002	< 0.2	< 0.02	
PULEGONE	0.002	ND	ND	
GERANIOL	0.002	ND	ND	
2-ETHYL-FENCHOL	0.002	ND	ND	
BETA-CARYOPHYLLENE	0.002	5.71	0.571	
HUMULENE	0.002	3.05	0.305	
BISABOLENE	0.002	ND	ND	
NEROLIDOL	0.002	0.35	0.035	
(-)-CARYOPHYLLENE OXIDE	0.002	ND	ND	
(-)-GUAIOL	0.002	4.88	0.488	
(-)-ALPHA-BISABOLOL	0.002	18.25	1.825	
Total (%)		**3.224**		

| Terpenes | LOD(%) | mg/g | % | Result (%) |

Terpenes TESTED

Analyzed by	Weight	Extraction date	Extracted By
1542	0.1585g	10/18/21 05:10:30	1542

Analysis Method - SOP-067 (R0)
Analytical Batch - DE002545TER **Reviewed On -** 10/19/21 13:45:42
Instrument Used : GC 6890
Running On :
Batch Date : 10/18/21 16:38:26

Reagent	Dilution	Consums. ID
101421.R04	40	887159111147201 1119999 00307958 R1KB34782 298076054 12211-108CC-108 923C4-923AK 5079-525C6-525E

Terpenoid profile screening is performed by GC-FID with liquid injection via SOP-067 (R0) which can screen for 28 terpenes.

Stephen Goldman
Lab Director

State License #
405R-00011 405-00008
ISO Accreditation # 4331.01

Signature

10/22/21
Signed On

879 Federal Blvd
Denver, CO, 80204, USA

Kaycha Labs

RAW-ORGFS-CBD
N/A
Matrix : Concentrate

Certificate of Analysis

PASSED

Hemplucid

4844 N. 300 W. Ste. 202
Provo, UT, 84604, US
Telephone: 7192318261
Email: sarah@hemplucid.com
License #: 405R-00011

Sample : DE11015009-001
Harvest/LOT ID: O-CO2-YP5-28121-BT3
Batch# : 2021-547A
Sampled : 10/13/21
Ordered : 10/13/21
Sample Size Received : 10 ml
Total Weight/Volume : N/A
Completed : 10/22/21 **Expires:** 10/22/22
Sample Method : SOP-024

Pesticides

PASSED

Pesticides	LOD	Units	Action Level	Result
OTHER PESTICIDES	0.1	ppb	100	ND
AVERMECTINS		ppb	70	ND
AZOXYSTROBIN	0.0149	ppb	20	ND
BIFENAZATE	0.0118	ppb	20	ND
ETOXAZOLE	0.00645	ppb	10	ND
IMAZALIL	0.0646	ppb	40	ND
IMIDACLOPRID	0.00748	ppb	20	ND
MALATHION	0.01108	ppb	50	ND
MYCLOBUTANIL	0.0135	ppb	40	ND
PERMETHRINS		ppb	40	ND
SPIROMESIFEN	0.0499	ppb	30	ND
SPIROTETRAMAT	0.0301	ppb	20	ND
SPINOSADS		ppb	60	ND
TEBUCONAZOLE	0.0103	ppb	10	ND

Pesticides	LOD	Units	Action Level	Result

Pesticides **PASSED**

Analyzed by 1696
Weight 0.1575g
Extraction date 10/18/21 03:10:09
Extracted By 1696

Analysis Method - SOP-060 (R5) ,
Analytical Batch - DE002541PES
Instrument Used : Sciex 6500 Qtrap
Running On :

Batch Date : 10/18/21 10:50:23

Reagent	Dilution	Consums. ID
101421.R02	25	887159111147201
101621.R02		1119999
101621.R01		00307958
101521.R01		040CB-040D
091021.R01		213685

Pesticide screen is performed using LC-MS which can screen down to below single digit ppb concentrations for regulated Pesticides via SOP-060 (R5). *

Stephen Goldman
Lab Director

State License #
405R-00011 405-00008
ISO Accreditation # 4331.01

Signature

10/22/21
Signed On

879 Federal Blvd
Denver, CO, 80204, USA

Kaycha Labs

RAW-ORGFS-CBD
N/A
Matrix : Concentrate

Certificate of Analysis

PASSED

Hemplucid

4844 N. 300 W. Ste. 202
Provo, UT, 84604, US
Telephone: 7192318261
Email: sarah@hemplucid.com
License #: 405R-00011

Sample : DE11015009-001
Harvest/LOT ID: O-CO2-YP5-28121-BT3
Batch# : 2021-547A
Sampled : 10/13/21
Ordered : 10/13/21
Sample Size Received : 10 ml
Total Weight/Volume : N/A
Completed : 10/22/21 **Expires:** 10/22/22
Sample Method : SOP-024

Residual Solvents PASSED

Solvent	LOD	Units	Action Level	Pass/Fail	Result
PROPANE	4.21421	ppm	1000	PASS	ND
ETHYL ACETATE	2.79218	ppm	1000	PASS	ND
BUTANES	15.794	ppm	1000	PASS	ND
BENZENE	0.47491	ppm	2	PASS	ND
METHANOL	1.27868	ppm	600	PASS	17.103
HEPTANE	3.25945	ppm	1000	PASS	ND
PENTANES	13.828	ppm	1000	PASS	ND
TOLUENE	2.10881	ppm	180	PASS	ND
XYLENES	7.115	ppm	430	PASS	ND
ETHANOL	2.70106	ppm	1000000	PASS	25.351
ACETONE	1.708	ppm	1000	PASS	18.386
2-PROPANOL	1.58756	ppm	1000	PASS	12.765
HEXANES	1.92798	ppm	60	PASS	ND

Residual Solvents PASSED

Analyzed by	Weight	Extraction date	Extracted By
7	0.1309g	NA	NA

Analysis Method - SOP-032 (R18)
Analytical Batch - DE002553SOL **Reviewed On -** 10/21/21 11:09:35
Instrument Used : GC 5890
Running On : 10/20/21 18:32:44
Batch Date : 10/20/21 08:36:21

Reagent	Dilution	Consums. ID
102021.R08	1	24160453 31726-2-1 213685

Residual solvents screening is performed using GCwhich can detect below single digit ppm concentrations. Currently we analyze for 15 Residual solvents.

Stephen Goldman
Lab Director

State License #
405R-00011 405-00008
ISO Accreditation # 4331.01

Signature

10/22/21
Signed On

879 Federal Blvd
Denver, CO, 80204, USA

Kaycha Labs

RAW-ORGFS-CBD
N/A
Matrix : Concentrate

Certificate of Analysis

PASSED

Hemplucid

4844 N. 300 W. Ste. 202
Provo, UT, 84604, US
Telephone: 7192318261
Email: sarah@hemplucid.com
License #: 405R-00011

Sample : DE11015009-001
Harvest/LOT ID: O-CO2-YP5-28121-BT3
Batch# : 2021-547A
Sampled : 10/13/21
Ordered : 10/13/21
Sample Size Received : 10 ml
Total Weight/Volume : N/A
Completed : 10/22/21 **Expires:** 10/22/22
Sample Method : SOP-024

Microbials — PASSED

Analyte	LOD	Result
TOTAL_YEAST_AND_MOLD		not present in 1 gram.
SHIGA_TOXIN_PRODUCING_ESCHERICHIA_COLI_STEC		not present in 1 gram.
SALMONELLA_SPECIES		not present in 1 gram.

Analysis Method -SOP-061 (R2); SOP-062 (R2); SOP-063 (R1)
Analytical Batch -DE002538MIC **Batch Date :** 10/18/21 10:00:06
Instrument Used : Microbial - Full Panel
Running On : 10/19/21 09:33:14

Analyzed by	Weight	Extraction date	Extracted By
6	0.89g	10/19/21 09:10:09	1473

Reagent	Reagent	Reagent	Dilution	Consums. ID	Consums. ID
100821.R01	092821.R08	022221.46	1	16564-106C6-106H	0
101821.R02	072921.01	101821.R08		40898-021C4-021AI	NT10-1212
072021.R02	050521.02	101821.R01		210316-361-B	20/08/30
101121.R06	100419.03	101421.R01		210622-687	01859
072621.R13	082421.02	091321.09		210622-688	00103
092821.R05	101421.R03			12265-115CC-115	CH_2055133

Microbiological testing for Fungal and Bacterial Identification via Polymerase Chain Reaction (PCR) methods and plating methods. If a pathogenic Escherichia Coli (STEC) or Salmonella is detected in 1g of a sample, the sample fails the microbiological-impurity testing.

Mycotoxins — PASSED

Analyte	LOD	Units	Result	Action Level
AFLATOXIN G2	0.303	ppb	ND	20
AFLATOXIN G1	0.180	ppb	ND	20
AFLATOXIN B2	0.0904	ppb	ND	20
AFLATOXIN B1	1.327	ppb	ND	20
OCHRATOXIN A+	0.0491	ppb	ND	20
AFLATOXINS		ppb	0	20

Analysis Method -SOP-060 (R5)
Analytical Batch -DE002542MYC | **Reviewed On -** 10/20/21 13:09:10
Instrument Used : Sciex 6500 Qtrap - Mycotoxins
Running On :
Batch Date : 10/18/21 10:50:27

Analyzed by	Weight	Extraction date	Extracted By
1696	0.1575g	10/18/21 03:10:54	1696

Aflatoxins B1, B2, G1, G2, and Ochratoxin A testing using LC-MS via SOP-060 (R5). Total Aflatoxins (Aflatoxin B1, B2, G1, G2) must be < 20µg/Kg. Ochratoxins must be < 5µg/Kg.

Heavy Metals — PASSED

Reagent	Dilution	Consums. ID
082721.13	50	018C4-018D
101321.R11		040CB-040D
101321.R10		12294-118CC-118
071620.05		234422
101321.R06		
101821.01		

Metal	LOD	Unit	Result	Action Level
ARSENIC	0.0020	ppm	ND	0.2
CADMIUM	0.0016	ppm	ND	0.2
MERCURY	0.0035	ppm	ND	0.1
LEAD	0.0101	ppm	ND	0.5

Analyzed by	Weight	Extraction date	Extracted By
666	0.2226g	10/19/21 11:10:05	666

Analysis Method -SOP-050 (R5)
Analytical Batch -DE002546HEA | **Reviewed On -** 10/20/21 12:34:01
Instrument Used : Shimadzu 2030 ICP-MS
Running On :
Batch Date : 10/19/21 07:34:36

Heavy Metals screening is performed using ICP-MS (Inductively Coupled Plasma – Mass Spectrometer) which can screen to below single digit ppb concentrations for regulated heavy metals using method SOP-050 (R5). Sample preparation for Heavy Metals Analysis via SOP-050 (R5).

Stephen Goldman
Lab Director

State License #
405R-00011 405-00008
ISO Accreditation # 4331.01

Signature

10/22/21
Signed On