



Certificate of Analysis

Oct 28, 2021 | Hemplucid

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

hemplucid

PASSED

Page 1 of 5

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

PRODUCT IMAGE

SAFETY RESULTS

Pesticides
PASSED

Heavy Metals
PASSED

Microbials
PASSED

Mycotoxins
PASSED

Residuals
Solvents
PASSED

Filtration
NOT TESTED

Water Activity
NOT TESTED

Moisture
NOT TESTED

Homogeneity
NOT TESTED

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	CBGA	CBLA	THC-D-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	0.003403
ppm	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	0.003403
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 1253	Weight 0.1715g	Extraction date : 10/21/21 04:10:27	Extracted By : 1642
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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.

This report shall not be reproduced, unless in its entirety, without written approval from Kaycha Labs. This report is an Kaycha Labs certification. The results relate only to the material or product analyzed. Test results are confidential unless explicitly waived otherwise. Void after 1 year from test end date. Cannabinoid content of batch material may vary depending on sampling error. IC=In-control QC parameter, NC=Non-controlled QC parameter, ND=Not Detected, NA=Not Analyzed, ppm=Parts Per Million, ppb=Parts Per Billion. Limit of Detection (LoD) and Limit Of Quantitation (LoQ) are terms used to describe the smallest concentration that can be reliably measured by an analytical procedure. RPD=Reproducibility of two measurements. Action Levels are State determined thresholds variable based on uncertainty of measurement (UM) for the analyte. The UM error is available from the lab upon request. The "Decision Rule" for the pass/fail does not include the UM. The limits are based on F.S. Rule 64-4.310.

Stephen Goldman

Lab Director

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



Signature

10/22/21

Signed On



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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

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Terpenes

TESTED

Terpenes	LOD(%)	mg/g	%	Result (%)	Terpenes	LOD(%)	mg/g	%	Result (%)
ALPHA-PINENE	0.002	ND	ND		<div>  Terpenes TESTED </div>				
CAMPHENE	0.002	ND	ND						
BETA-PINENE	0.002	ND	ND		<div> Analyzed by 1542 Weight 0.1585g Extraction date 10/18/21 05:10:30 Extracted By 1542 </div>				
MYRCENE	0.002	< 0.2	< 0.02						
DELTA-3-CARENE	0.002	ND	ND		<div> Analysis Method -SOP-067 (R0) Analytical Batch -DE002545TER Instrument Used : GC 6890 Running On : Batch Date : 10/18/21 16:38:26 Reviewed On - 10/19/21 13:45:42 </div>				
ALPHA-TERPINENE	0.002	ND	ND						
P-CYMENTHENE	0.002	ND	ND		<div> Reagent 101421.R04 Dilution 40 Consums. ID 887159111147201 1119999 00307958 R14834782 298076054 12211-108CC-108 923C4-923AK 5079-525C6-525E </div>				
LIMONENE	0.002	ND	ND						
EUCALYPTOL	0.002	ND	ND		<div> Terpenoid profile screening is performed by GC-FID with liquid injection via SOP-067 (R0) which can screen for 28 terpenes. </div>				
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	0.002	ND	ND						
OXIDE									
(-)-GUAIOL	0.002	4.88	0.488						
(-)-ALPHA-BISABOLOL	0.002	18.25	1.825						
Total (%)		3.224							



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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


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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
<div><div></div><div>Pesticides</div></div>				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		
	25	887159111147201		
101421.R02		1119999		
101621.R02		00307958		
101621.R01		040CB-040D		
101521.R01		213685		
091021.R01				
Pesticide screen is performed using LC-MS which can screen down to below single digit ppb concentrations for regulated Pesticides via SOP-060 (R5). *				



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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

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Residual Solvents **PASSED**



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

Analyzed by 7 **Weight** 0.1309g **Extraction date** NA **Extracted By** 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 GC which can detect below single digit ppm concentrations. Currently we analyze for 15 Residual solvents.



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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

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	Microbials	PASSED		Mycotoxins	PASSED
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Analyte

 TOTAL_YEAST_AND_MOLD
 SHIGA_TOXIN_PRODUCING_ESCHERICHIA_COLI_STEC
 SALMONELLA_SPECIES

LOD
Result

 not present in 1 gram.
 not present in 1 gram.
 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.

Analyte

 AFLATOXIN G2
 AFLATOXIN G1
 AFLATOXIN B2
 AFLATOXIN B1
 OCHRATOXIN A+
 AFLATOXINS

LOD

 0.303
 0.180
 0.0904
 1.327
 0.0491

Units

 ppb
 ppb
 ppb
 ppb
 ppb
 ppb

Result

 ND
 ND
 ND
 ND
 ND
 0

Action Level

 20
 20
 20
 20
 20
 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).