



Certificate of Analysis

Sample: **DE10528015-001**
Harvest/Lot ID: **O-CO2-YP5-14521-BULK103**
Seed to Sale # **#1A4000B00010D25000000255**
Batch Date : **05/25/21**
Batch#: **2021-275(2)**
Sample Size Received: **10 ml**
Total Weight/Volume: **N/A**
Retail Product Size: **1 gram**
Ordered : **05/28/21**
sampled : **05/28/21**
Completed: **06/09/21** Expires: **06/09/22**
Sampling Method: **SOP-024**

Jun 09, 2021 | Hemplucid











License # NA
4844 N. 300 W. Ste. 202
Provo, CO, 84604, US



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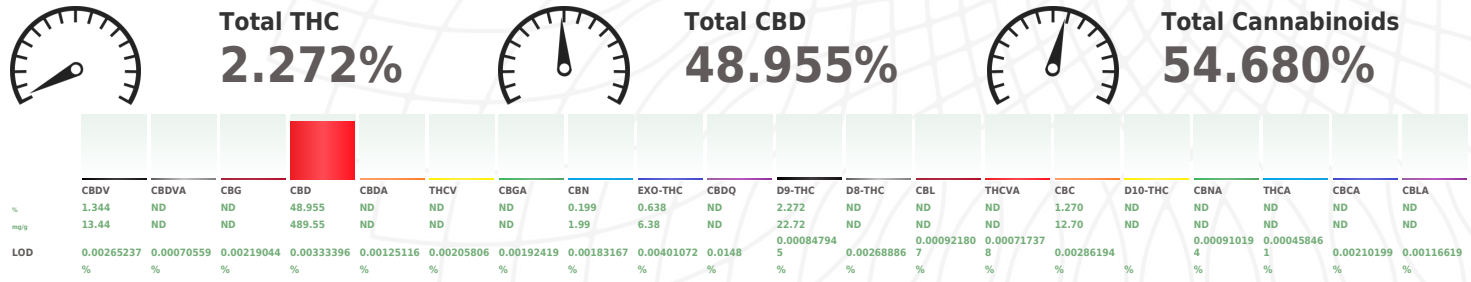
PRODUCT IMAGE SAFETY RESULTS



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

MISC.

CANNABINOID RESULTS



Cannabinoid Profile Test

Analyzed by 8	Weight 0.1366g	Extraction date : 06/01/21 01:06:42	Extracted By : 1642
Analysis Method -SOP-020 (R15)	Reviewed On - 06/02/21 15:55:57	Batch Date : 06/01/21 10:32:08	
Analytical Batch -DE001979POT	Instrument Used : Agilent 1100 "Liger"	Running On : 06/02/21 10:38:17	

Reagent	Dilution	Consums. ID	Consums. ID
052021.R06	200	041321	1057-225-000
052821.R03		0264898	
052821.R02		AN042	
		280674667	
		12104-042CC-042	
		923C4-923AK	

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.

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06/09/21
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License #: NA

Sample : DE10528015-001
Harvest/LOT ID: O-CO2-YP5-14521-BULK103
Batch# : 2021-275(2) Sample Size Received : 10 ml
Sampled : 05/28/21 Total Weight/Volume : N/A
Ordered : 05/28/21 Completed : 06/09/21 Expires: 06/09/22
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						
CAMPHENE	0.002	ND	ND						
BETA-PINENE	0.002	ND	ND						
MYRCENE	0.002	ND	ND						
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	ND	ND						
(-)-ISOPULEGOL	0.002	ND	ND						
BORNEOL	0.002	ND	ND						
MENTHOL	0.002	ND	ND						
ALPHA-TERPINEOL	0.002	ND	ND						
PULEGONE	0.002	ND	ND						
GERANIOL	0.002	ND	ND						
2-ETHYL-FENCHOL	0.002	ND	ND						
BETA-CARYOPHYLLENE	0.002	7.590	0.759	█					
HUMULENE	0.002	2.809	0.280	█					
BISABOLENE	0.002	ND	ND						
NEROLIDOL	0.002	ND	ND						
(-)-CARYOPHYLLENE OXIDE	0.002	ND	ND						
(-)-GUAJOL	0.002	ND	ND						
(-)-ALPHA-BISABOLOL	0.002	34.106	3.410	█					
Total (%)		4.450		█					



Terpenes

TESTED

Analyzed by 8 **Weight** 0.1366g **Extraction date** 06/01/21 04:06:06 **Extracted By** 1542
Analysis Method -SOP-067 (R0)
Analytical Batch -DE001980TER **Reviewed On - 06/02/21 16:23:57**
Instrument Used : GC 6890
Running On :
Batch Date : 06/01/21 16:18:02

Reagent	Dilution	Consums. ID
	40	

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

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Email: sarah@hemplucid.com
License #: NA

Sample : DE10528015-001
Harvest/LOT ID: O-CO2-YP5-14521-BULK103
Batch# : 2021-275(2) Sample Size Received : 10 ml
Sampled : 05/28/21 Total Weight/Volume : N/A
Ordered : 05/28/21 Completed : 06/09/21 Expires: 06/09/22
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	4.552
SPIINOSADS		ppb	60	ND
TEBUCONAZOLE	0.0103	ppb	10	ND

Pesticides	LOD	Units	Action Level	Result
 Pesticides				PASSED
Analyzed by 8	Weight 0.1411g	Extraction date NA	Extracted By NA	
Analysis Method - SOP-060 (R5) ,		Instrument Used :		
Analytical Batch - DE002000PES		Running On :		
Reagent		Dilution	Consums. ID	
053021.R01 051821.R10		25	24161320 9234640 00302923 040CB-040D 5079-525C6-525E	
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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License #: NA


Sample : DE10528015-001
Harvest/LOT ID: O-CO2-YP5-14521-BULK103
Batch# : 2021-275(2) Sample Size Received : 10 ml
Sampled : 05/28/21 Total Weight/Volume : N/A
Ordered : 05/28/21 Completed : 06/09/21 Expires: 06/09/22
Sample Method : SOP-024

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Residual Solvents

PASSED



Residual Solvents

PASSED

Solvent	LOD	Units	Action Level (PPM)	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	12.447
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	10000	PASS	39.212
ACETONE	1.708	ppm	1000	PASS	10.177
2-PROPANOL	1.58756	ppm	1000	PASS	56.498
HEXANES	1.92798	ppm	60	PASS	ND

Analyzed by 666 **Weight** 0.1506g **Extraction date** 06/01/21 11:06:41 **Extracted By** 666
Analysis Method -SOP-032 (R18)
Analytical Batch -DE001978SOL **Reviewed On - 06/02/21 11:46:55**
Instrument Used : GC 5890
Running On : 06/01/21 12:19:52
Batch Date : 06/01/21 09:25:41

Reagent	Dilution	Consums. ID
052021.R05	1	33112320180006
052621.R01		31726-2-1
		213685
		018C4-018D

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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License #: NA


Sample : DE10528015-001
Harvest/LOT ID: O-CO2-YP5-14521-BULK103
Batch#: 2021-275(2) Sample Size Received : 10 ml
Sampled : 05/28/21 Total Weight/Volume : N/A
Ordered : 05/28/21 Completed : 06/09/21 Expires: 06/09/22
Sample Method : SOP-024

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Microbials

PASSED



Mycotoxins

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 -DE001976MIC Batch Date : 06/01/21
Instrument Used : Microbial - Full Panel
Running On : 06/01/21

Analyzed by	Weight	Extraction date	Extracted By
6	2.2g	06/01/21	1473

Reagent	Reagent	Reagent	Consums. ID	Consums. ID
052421.R06	041521.01	052021.12	1057-225-000	2
050421.R02	031121.07	022221.20	40898-021C4-021AI	NT10-1212
052021.R16	100419.03	053021.R02	656767-E-23427	20/08/30
050721.R06	040221.01	051421.22	0	00019
041421.R12	051121.R07	051421.23	1	00100
051121.R05	052021.13	053121.R01	12123-046CC-046	CH_2048639

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	LOD	Units	Result	Action Level (PPM)
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	0.000	20

Analysis Method -SOP-060 (R5)
Analytical Batch -DE001988MYC | Reviewed On - 06/07/21 07:35:34
Instrument Used :
Running On :
Batch Date : 06/02/21 13:20:53

Analyzed by	Weight	Extraction date	Extracted By
8	0.1411g	06/06/21 03:06:10	8

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
042321.01	50	018C4-018D
052721.R03		040CB-040D
052721.R02		12123-047CC-047
051921.R03		923C4-923AK
052721.R18		

Metal	LOD	Unit	Result	Action Level (PPM)
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
7	0.2142g	06/01/21 04:06:52	666

Analysis Method -SOP-050 (R5)
Analytical Batch -DE001975HEA | Reviewed On - 06/02/21 08:36:36
Instrument Used : Shimadzu 2030 ICP-MS
Running On : 06/01/21 16:55:58
Batch Date : 06/01/21 08:46:39

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).

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