



# Certificate of Analysis

Sample: DE10426024-002  
Harvest/Lot ID: O-CO2-YP5-11021-BULK97  
Seed to Sale #1A4000B00010D25000000176  
Batch Date : 04/20/21  
Batch#: 2021-240  
Sample Size Received: 10 ml  
Total Weight/Volume: N/A  
Retail Product Size: 1 gram  
Ordered : 04/26/21  
sampled : 04/26/21  
Completed: 04/30/21 Expires: 04/30/22  
Sampling Method: SOP-024

Apr 30, 2021 | Hemplucid











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



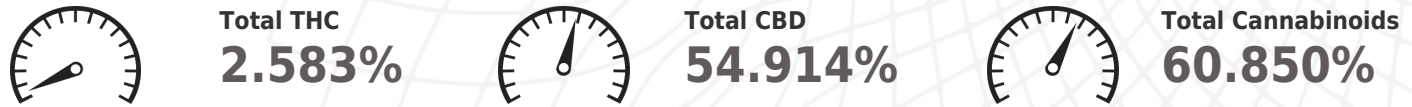
**PASSED**

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## SAFETY RESULTS

									
Pesticides NOT TESTED	Heavy Metals <b>PASSED</b>	Microbials <b>PASSED</b>	Mycotoxins <b>PASSED</b>	Residuals Solvents <b>PASSED</b>	Filth NOT TESTED	Water Activity NOT TESTED	Moisture NOT TESTED	Homogeneity NOT TESTED	Terpenes TESTED

## CANNABINOID RESULTS



	CBDV	CBDVA	CBG	CBD	CBDA	THCV	CBGA	CBN	EXO-THC	CBDQ	D9-THC	D8-THC	CBL	THCVA	CBC	D10-THC	CBNA	THCA	CBCA	CBLA
	0.982	ND	ND	54.914	ND	ND	ND	0.134	0.547	ND	2.583	ND	ND	ND	1.688	ND	ND	ND	ND	ND
	9.82	ND	ND	549.14	ND	ND	ND	1.34	5.47	ND	25.83	ND	ND	ND	16.88	ND	ND	ND	ND	ND
LOD	0.002	0.001	0.002	0.000	0.000	0.002	0.001	0.000	0.000	0.014	0.000	0.002	0.000	0.000	0.002	0.012	0.000	0.000	0.002	0.001
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%

## Cannabinoid Profile Test

Analyzed by 1253	Weight 0.1997g	Extraction date : 04/27/21 04:04:31	Extracted By : 667
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Analysis Method -SOP-020 (R15)	Reviewed On - 04/28/21 15:39:43	Batch Date : 04/27/21 12:23:35
Analytical Batch -DE001811POT	Instrument Used : Agilent 1100 "Falcor" Running On :	

Reagent	Dilution	Consums. ID	Consums. ID
111620.12	200	24161320	923C4-923AK
022421.R05		0264898	5079-525C6-525E
042221.R08		00302923	
042621.R01		ROBB28597	
		280674667	
		12104-042CC-042	

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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**Stephen Goldman**  
Lab Director  
State License #  
405R-00011 405-00008  
ISO Accreditation # 4331.01



Signature

04/30/2021

Signed On



# Certificate of Analysis

**PASSED**

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Email: sarah@hemplucid.com  
License #: NA

Sample : DE10426024-002  
Harvest/LOT ID: O-CO2-YP5-11021-BULK97  
Batch# : 2021-240  
Sample Size Received : 10 ml  
Sampled : 04/26/21  
Total Weight/Volume : N/A  
Ordered : 04/26/21  
Completed : 04/30/21 Expires: 04/30/22  
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	0.456	0.045						
(-)-ISOPULEGOL	0.002	ND	ND						
BORNEOL	0.002	< 0.4	< 0.040						
MENTHOL	0.002	ND	ND						
ALPHA-TERPINEOL	0.002	< 0.2	< 0.020						
PULEGONE	0.002	ND	ND						
GERANIOL	0.002	ND	ND						
2-ETHYL-FENCHOL	0.002	ND	ND						
BETA-CARYOPHYLLENE	0.002	8.963	0.896						
HUMULENE	0.002	4.188	0.418						
BISABOLENE	0.002	ND	ND						
NEROLIDOL	0.002	ND	ND						
(-)-CARYOPHYLLENE OXIDE	0.002	ND	ND						
(-)-GUAIAOL	0.002	5.485	0.548						
(-)-ALPHA-BISABOLOL	0.002	17.887	1.788						
<b>Total (%)</b>		<b>3.698</b>							



## Terpenes

**TESTED**

**Analyzed by** 8    **Weight** 0.1997g    **Extraction date** 04/27/21 05:04:56    **Extracted By** 667

**Analysis Method -SOP-067 (R0)**  
**Analytical Batch -DE001806TER**    **Reviewed On - 04/29/21 14:49:33**  
**Instrument Used : GC 6890**  
**Running On :**  
**Batch Date : 04/26/21 15:12:56**

Reagent	Dilution	Consums. ID
042621.R01	40	24161320 HWK-TP3ML 0264898 00302923 280674667 12104-042CC-042

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 : DE10426024-002  
Harvest/LOT ID: O-CO2-YP5-11021-BULK97  
Batch# : 2021-240  
Sample Size Received : 10 ml  
Sampled : 04/26/21  
Total Weight/Volume : N/A  
Ordered : 04/26/21  
Completed : 04/30/21 Expires: 04/30/22  
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	27.180
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	135.350
ACETONE	1.708	ppm	1000	PASS	7.250
2-PROPANOL	1.58756	ppm	1000	PASS	9.075
HEXANES	1.92798	ppm	60	PASS	ND

Analyzed by	Weight	Extraction date	Extracted By
7	0.1662g	04/27/21 03:04:21	666
<b>Analysis Method -SOP-032 (R18)</b>			
<b>Analytical Batch -DE001807SOL</b>		<b>Reviewed On - 04/28/21 12:36:24</b>	
<b>Instrument Used : GC 5890</b>			
<b>Running On :</b>			
<b>Batch Date : 04/26/21 16:33:42</b>			
Reagent	Dilution	Consums. ID	
042721.R09	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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Signature

04/30/2021  
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Sample : DE10426024-002  
Harvest/LOT ID: O-CO2-YP5-11021-BULK97  
Batch# : 2021-240 Sample Size Received : 10 ml  
Sampled : 04/26/21 Total Weight/Volume : N/A  
Ordered : 04/26/21 Completed : 04/30/21 Expires: 04/30/22  
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 -DE001810MIC Batch Date : 04/27/21  
Instrument Used : Microbial - Full Panel  
Running On : 04/29/21

Analyzed by	Weight	Extraction date	Extracted By
1473	0.55g	04/29/21	1473

Reagent	Reagent	Reagent	Consums. ID	Consums. ID
042221.R03	041421.R06	040121.18	0	3
042721.R13	021221.02	042921.R12	1	00100
022321.R13	040221.01	042221.R06	MKCN2192	CH_2048639
042621.R12	042221.01	043021.R01	12104-042CC-042	
041321.R05	022221.15		2	
032521.R14	041321.02		NT10-1212	

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 -DE001816MYC | Reviewed On - 04/29/21 13:49:43  
Instrument Used : Sciex 6500 Qtrap - Mycotoxins  
Running On :  
Batch Date : 04/28/21 12:02:36

Analyzed by	Weight	Extraction date	Extracted By
7	0.1418g	04/29/21 01:04:09	7

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	Reagent	Dilution	Consums. ID
042321.01	042221.R11	50	018C4-018D
042621.R05	041421.01		040CB-040D
042621.R04			12104-042CC-042
011521.01			923C4-923AK
071620.05			
041521.R06			

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	0.2083g	04/28/21 02:04:20	666

Analysis Method -SOP-050 (R5)  
Analytical Batch -DE001808HEA | Reviewed On - 04/29/21 12:18:17  
Instrument Used : Shimadzu 2030 ICP-MS  
Running On : 04/28/21 15:28:14  
Batch Date : 04/26/21 16:34:26

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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