



# Certificate of Analysis

Sample: DE01116016-001  
Harvest/Lot ID: 2020-O-RME-0002-0019  
Seed to Sale #1A400031269FB2B000000780  
Batch Date : 11/09/20  
Batch#: PO34  
Sample Size Received: 2 ml  
Retail Product Size: 1  
Ordered : 11/12/20  
Sampled : 11/12/20  
Completed: 11/18/20 Expires: 11/18/21  
Sampling Method: SOP-024

**PASSED**

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Nov 18, 2020 | Hemplucid

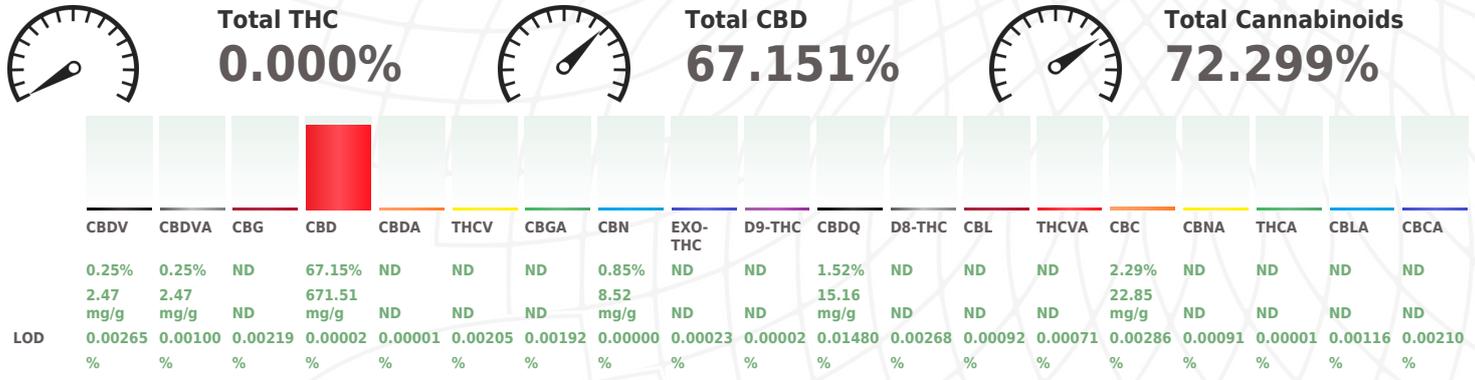
License # NA  
4844 N. 300 W. Ste. 202  
Provo, CO, 84604, US



**SAFETY RESULTS**

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

**CANNABINOID RESULTS**



**Cannabinoid Profile Test**

Analyzed by: 8      Weight: 0.1446g      Extraction date: 11/17/20 10:11:23      Extracted By: 8  
 Analysis Method -SOP-020 (R15)      Reviewed On - 11/18/20 13:48:46      Batch Date : 11/16/20 15:27:57  
 Analytical Batch -DE001182POT      Instrument Used : Agilent 1100 "Falcon" Running On :

Reagent	Dilution	Consums. ID	Consums. ID
111320.R01	200	092120	923C4-923AK
111420.R03		9212322	61292-019C6-019H
111320.R02		00300153-7	
122719.04		32719002	
111720.07		R0BB28597	
		26417018	

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

11/18/2020  
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# Certificate of Analysis

**Sample: DE10429014-008**  
**Harvest/Lot ID: 2020-O-RME-0002-0019**  
**Seed to Sale #1A4000B00010D25000000186**  
**Batch Date : 11/01/20**  
**Batch#: PO34**  
**Sample Size Received: 10 ml**  
**Total Weight/Volume: N/A**  
**Retail Product Size: 1 gram**  
**Ordered : 04/29/21**  
**sampled : 04/29/21**  
**Completed: 05/07/21 Expires: 05/07/22**  
**Sampling Method: SOP-024**

May 07, 2021 | Hemplucid

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Provo, CO, 84604, US



**PASSED**  
Page 1 of 5

PRODUCT IMAGE SAFETY RESULTS



SAFETY RESULTS										MISC.
										
Pesticides <b>PASSED</b>	Heavy Metals <b>PASSED</b>	Microbials <b>PASSED</b>	Mycotoxins <b>PASSED</b>	Residuals Solvents <b>PASSED</b>	Filtration NOT TESTED	Water Activity NOT TESTED	Moisture NOT TESTED	Homogeneity NOT TESTED	Terpenes <b>TESTED</b>	

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

  
Signature

05/07/21  
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# Certificate of Analysis

**PASSED**

4844 N. 300 W. Ste. 202  
Provo, CO, 84604, US  
Telephone: 7192318261  
Email: sarah@hemplucid.com  
License #: NA

Sample : DE10429014-008  
Harvest/LOT ID: 2020-O-RME-0002-0019  
Batch# : PO34  
Sample Size Received : 10 ml  
Sampled : 04/29/21  
Total Weight/Volume : N/A  
Ordered : 04/29/21  
Completed : 05/07/21 Expires: 05/07/22  
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	ND	ND						
HUMULENE	0.002	ND	ND						
BISABOLENE	0.002	ND	ND						
NEROLIDOL	0.002	ND	ND						
(-)-CARYOPHYLLENE OXIDE	0.002	1.810	0.181						
(-)-GUAJOL	0.002	1.221	0.122						
(-)-ALPHA-BISABOLOL	0.002	3.936	0.393						
<b>Total (%)</b>		0.696							



## Terpenes

**TESTED**

**Analyzed by** 8    **Weight** 0.155g    **Extraction date** 05/04/21 09:05:40    **Extracted By** 1542

**Analysis Method -SOP-067 (R0)**  
**Analytical Batch -DE001838TER**    **Reviewed On - 05/05/21 14:00:10**  
**Instrument Used : GC 6890**  
**Running On :**  
**Batch Date : 05/03/21 14:38:28**

Reagent	Dilution	Consums. ID
043021.R03	40	24161320 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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**Stephen Goldman**  
Lab Director  
State License # 405R-00011 405-00008  
ISO Accreditation # 4331.01

  
Signature

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Signed On



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Provo, CO, 84604, US  
Telephone: 7192318261  
Email: sarah@hemplucid.com  
License #: NA

Sample : DE10429014-008  
Harvest/LOT ID: 2020-O-RME-0002-0019  
Batch# : PO34  
Sample Size Received : 10 ml  
Sampled : 04/29/21  
Total Weight/Volume : N/A  
Ordered : 04/29/21  
Completed : 05/07/21 Expires: 05/07/22  
Sample Method : SOP-024

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**Pesticides**

PASSED

Pesticides	LOD	Units	Action Level	Result
OTHER PESTICIDES	0.1	ppb	100	ND
AVERMECTINS	0.0271	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	0.0131	ppb	40	18.983
SPIROMESIFEN	0.0499	ppb	30	ND
SPIROTETRAMAT	0.0301	ppb	20	ND
SPIINOSADS	0.0134	ppb	60	ND
TEBUCONAZOLE	0.0103	ppb	10	ND



**Pesticides**

PASSED

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<b>Analyzed by</b>	<b>Weight</b>	<b>Extraction date</b>	<b>Extracted By</b>
7	0.1632g	05/01/21 12:05:45	7
<b>Analysis Method - SOP-060 (R5) ,</b>			
<b>Analytical Batch - DE001828PES</b>			
<b>Instrument Used : Sciex 6500 Qtrap - Pesticides</b>			
<b>Running On :</b>		<b>Batch Date : 04/30/21 12:05:25</b>	

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Reagent	Dilution	Consums. ID
042721.R10	25	24161320
042721.R12		0264898
042721.R11		00302923
042021.R04		040CB-040D
041321.R04		280674667
05021.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). \*

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

  
Signature

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Signed On



# Certificate of Analysis

**PASSED**

4844 N. 300 W. Ste. 202  
Provo, CO, 84604, US  
Telephone: 7192318261  
Email: sarah@hemplucid.com  
License #: NA

Sample : DE10429014-008  
Harvest/LOT ID: 2020-O-RME-0002-0019  
Batch# : PO34  
Sample Size Received : 10 ml  
Sampled : 04/29/21  
Total Weight/Volume : N/A  
Ordered : 04/29/21  
Completed : 05/07/21 Expires: 05/07/22  
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	<3.836
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	ND
ACETONE	1.708	ppm	1000	PASS	ND
2-PROPANOL	1.58756	ppm	1000	PASS	<4.762
HEXANES	1.92798	ppm	60	PASS	ND

**Analyzed by** 666      **Weight** 0.1524g      **Extraction date** 05/03/21 03:05:44      **Extracted By** 666  
**Analysis Method -SOP-032 (R18)**  
**Analytical Batch -DE001834SOL**      **Reviewed On - 05/04/21 11:11:45**  
**Instrument Used : GC 5890**  
**Running On : 05/03/21 16:45:39**  
**Batch Date : 05/03/21 10:15:36**

Reagent	Dilution	Consums. ID
042121.R01	1	018C4-018D
042721.R09		24160453
		31726-2-1
		61564-106C6-106H

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



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05/07/21  
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# Certificate of Analysis

**PASSED**

Sample : DE10429014-008  
Harvest/LOT ID: 2020-O-RME-0002-0019

4844 N. 300 W. Ste. 202  
Provo, CO, 84604, US  
Telephone: 7192318261  
Email: sarah@hemplucid.com  
License #: NA

Batch# : PO34  
Sampled : 04/29/21  
Ordered : 04/29/21

Sample Size Received : 10 ml  
Total Weight/Volume : N/A  
Completed : 05/07/21 Expires: 05/07/22  
Sample Method : SOP-024

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## 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 -DE001827MIC Batch Date : 04/30/21  
Instrument Used : Microbial - Full Panel  
Running On :

Analyzed by	Weight	Extraction date	Extracted By
6	1.24g	05/03/21	6

Reagent	Reagent	Reagent	Reagent	Consums. ID	Consums. ID
032521.R15	041321.R05	021221.02	043021.R01	1057-225-000	NT10-1212
041421.R08	041421.R12	031121.07	040121.18	40898-021C4-021AI	3
041421.R07	041321.02	040221.01	040121.19	12104-042CC-042	00019
043021.R02	042721.02	022221.15		0	00100
042621.R12	042821.01	022221.14		1	CH_2048639
022321.R13	100419.03	042921.R12		2	

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 (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 -DE001829MYC | Reviewed On - 05/04/21 13:05:14  
Instrument Used : Sciex 6500 Qtrap - Mycotoxins  
Running On :  
Batch Date : 04/30/21 12:06:10

Analyzed by	Weight	Extraction date	Extracted By
7	0.1632g	05/01/21 12:05:19	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	050321.01	50	018C4-018D
042621.R05			040CB-040D
042621.R04			12104-042CC-042
071620.05			923C4-923AK
041521.R06			
043021.R08			

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	0.2304g	05/03/21 04:05:20	666

Analysis Method -SOP-050 (R5)  
Analytical Batch -DE001832HEA | Reviewed On - 05/04/21 09:27:42  
Instrument Used : Shimadzu 2030 ICP-MS  
Running On : 05/03/21 16:44:06  
Batch Date : 05/03/21 09:15:17

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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Signature

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Signed On