



Certificate of Analysis

Jan 25, 2022 | Hemplucid

License # 405R-00011

4844 N. 300 W. Ste. 202

Provo, UT, 84604, US

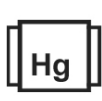
hemplucid

PASSED

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PRODUCT IMAGE

SAFETY RESULTS

Pesticides
PASSED

Heavy Metals
PASSED

Microbials
PASSED

Mycotoxins
NOT TESTED

Residuals
Solvents
PASSED

Filtration
NOT TESTED

Water Activity
NOT TESTED

Moisture
NOT TESTED

Homogeneity
NOT TESTED

Terpenes
TESTED
CANNABINOID RESULTS

Total THC
ND

Total CBD
70.058%

Total Cannabinoids
77.054%

	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-O-ACETATE
%	ND	ND	ND	70.058	ND	ND	ND	0.985	ND	3.07	ND	ND	ND	ND	2.941	ND	ND	ND	ND	ND	ND
mg/g	ND	ND	ND	700.58	ND	ND	ND	9.85	ND	30.7	ND	ND	ND	ND	29.41	ND	ND	ND	ND	ND	ND
LOD	0.001	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 8	Weight 0.1601g	Extraction date : 01/19/22 02:01:30	Extracted By : 8
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Analysis Method -SOP-020 (R15)	Reviewed On - 01/20/22 14:50:34	Batch Date : 01/19/22 10:53:32
Analytical Batch -DE002906POT	Instrument Used : Agilent 1100 "Liger"	Running On : 01/19/22 16:59:56

Reagent	Dilution	Consums. ID	Consums. ID
122321.R02	200	11152021	234422
011822.R08		ASO-8408	61596-112C6-112E
012022.R04		05821015	
		BG045	
		R1K834782	
		12265-115CC-115	

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

Sample : DE20118012-003

Harvest/Lot ID: 2020-O-RME-0004-0012

Batch# : N/A

Sampled : 01/13/22

Ordered : 01/13/22

Sample Size Received : 7 ml

Total Weight/Volume : N/A

Completed : 01/25/22 Expires: 01/25/23

Sample Method : SOP-024

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Terpenes

TESTED

Terpenes	LOD(%)	mg/ml	%	Result (%)	Terpenes	LOD(%)	mg/ml	%	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	< 0.2	< 0.02						
ALPHA-TERPINENE	0.002	ND	ND						
P-CYME	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	1.39	0.139						
(-)-GUAIOL	0.002	0.54	0.054						
(-)-ALPHA-BISABOLOL	0.002	3.28	0.328						
Total (%)				0.521					



Terpenes

TESTED

 Analyzed by
1542

 Weight
 0.1601g

 Extraction date
 01/19/22 03:01:00

 Extracted By
 1542

 Analysis Method - SOP-067 (R0)
 Analytical Batch - DE002910TER
 Instrument Used : GC 6890
 Running On : 01/19/22 17:29:50
 Batch Date : 01/19/22 14:44:10

Reviewed On - 01/21/22 09:21:40

 Reagent
 011922.R05

 Dilution
 40

 Consums. ID
 11152021
 1119999
 00291464
 R1KB34782
 298076054
 12211-108CC-108

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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Sample : DE20118012-003
Harvest/Lot ID: 2020-O-RME-0004-0012
Batch# : N/A
Sampled : 01/13/22
Ordered : 01/13/22
Sample Size Received : 7 ml
Total Weight/Volume : N/A
Completed : 01/25/22 Expires: 01/25/23
Sample Method : SOP-024


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Pesticides

PASSED

Pesticides	LOD	Units	Action Level	Pass/Fail	Result
OTHER PESTICIDES	0.1	ppb	100	PASS	ND
AVERMECTINS	0.0271	ppb	70	PASS	ND
AZOKYSTROBIN	0.0149	ppb	20	PASS	ND
BIFENAZATE	0.0118	ppb	20	PASS	ND
ETOXAZOLE	0.00645	ppb	10	PASS	ND
IMAZALIL	0.0646	ppb	40	PASS	ND
IMIDACLOPRID	0.00748	ppb	20	PASS	ND
MALATHION	0.01108	ppb	50	PASS	ND
MYCLOBUTANIL	0.0135	ppb	40	PASS	ND
PERMETHRINS	0.0131	ppb	40	PASS	ND
SPIROMESIFEN	0.0499	ppb	30	PASS	ND
SPIROTETRAMAT	0.0301	ppb	20	PASS	ND
SPINOSADS	0.0134	ppb	60	PASS	ND
TEBUCONAZOLE	0.0103	ppb	10	PASS	ND



Pesticides

PASSED

Analyzed by

1696

Analysis Method - SOP-060 (R5),

Analytical Batch - DE002914PES

Instrument Used : Sciex 6500 Qtrap - Pesticides

Running On :

Weight

0.1848g

Extraction date

01/20/22 12:01:26

Extracted By

1696

Reagent

010422.R06

011822.R17

122721.R07

012022.R02

011222.R01

Dilution

25

Consumables ID

11152021


1119999

00291464

114CB-114E

16564-106C6-106H

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

Pesticides		LOD	Units	Action Level	Pass/Fail	Result
<div>Pesticides</div>						PASSED
Analyzed by	Weight	Extraction date		Extracted By		
1696	0.1848g	01/20/22 12:01:26		1696		
Analysis Method - SOP-060 (R5), Analytical Batch - DE002914PES Instrument Used : Sciex 6500 Qtrap - Pesticides						
Running On :		Batch Date : 01/20/22 08:38:23				
Reagent	Dilution	Consumables ID				
010422.R06	25	11152021				
011822.R17		11199999				
122721.R07		00291464				
012022.R02		114CB-114E				
011222.R01		16564-106C6-106H				
Pesticide screen is performed using LC-MS which can screen down to below single digit ppb concentrations for regulated Pesticides using SOP-060 (R5). *						



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Sample : DE20118012-003
Harvest/Lot ID: 2020-O-RME-0004-0012

Batch# : N/A
Sampled : 01/13/22
Ordered : 01/13/22

Sample Size Received : 7 ml
Total Weight/Volume : N/A
Completed : 01/25/22 **Expires:** 01/25/23
Sample Method : SOP-024

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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	<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	1000000	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



Residual Solvents

PASSED

Analyzed by 7	Weight 0.1936g	Extraction date 01/19/22 02:01:39	Extracted By 7
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Analysis Method -SOP-032 (R18)
Analytical Batch -DE002907SOL
Instrument Used : GC 5890
Running On :
Batch Date : 01/19/22 11:17:42
Reviewed On - 01/20/22 13:00:17

Reagent 011922.R07	Dilution 1	Consumables ID 24160453 31726-2-1 16564-106C6-106H
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Residual solvents screening is performed using GCwhich can detect below single digit ppm concentrations. Currently we analyze for 15 Residual solvents.



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Sample : DE20118012-003
Harvest/Lot ID: 2020-O-RME-0004-0012
Batch# : N/A
Sampled : 01/13/22
Ordered : 01/13/22

Sample Size Received : 7 ml
Total Weight/Volume : N/A
Completed : 01/25/22 **Expires:** 01/25/23
Sample Method : SOP-024

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	Microbials	 Heavy Metals
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Analyte	LOD	Result	Pass / Fail
TOTAL YEAST AND MOLD		not present in 1 gram.	PASS
SHIGA TOXIN PRODUCING ESCHERICHIA COLI STEC		not present in 1 gram.	PASS
SALMONELLA SPECIES		not present in 1 gram.	PASS
MICROBIALS		not present in 1 gram.	PASS

Analysis Method -SOP-061 (R2); SOP-062 (R2); SOP-063 (R1)
Analytical Batch -DE002905MIC Batch Date : 01/18/22 18:12:32
Instrument Used : Microbial - Full Panel
Running On : 01/19/22 12:46:46

Analyzed by	Weight	Extraction date	Extracted By
1473	1.58g	01/19/22 10:01:24	1473

Reagent	Reagent	Reagent	Dilution	Consums. ID	Consums. ID
011822.R09	121421.R08	122321.01	1	61596-112C6-112E	1
011822.R07	123021.R04	022221.62		40898-021C4-021AI	20/08/30
011122.R12	121421.R09	011722.R07		0	01860
112921.R19	082721.01	011822.R10		CB1F14A 91005	00104
121721.R06	110821.04	121421.09		210622-688	C_2142603
101521.R04	110821.02			12265-115CC-115	

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.

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

Analyzed by	Weight	Extraction date	Extracted By
7	0.2191g	01/19/22 11:01:11	666

Analysis Method -SOP-050 (R5)
Analytical Batch -DE002904HEA | Reviewed On - 01/23/22 13:07:08
Instrument Used : Shimadzu 2030 ICP-MS
Running On : 01/21/22 16:12:44 | Batch Date : 01/18/22 16:00:35

Reagent	Reagent	Dilution	Consums. ID
082721.13	010622.R05	50	210316-361-B
011722.R02	011822.06		114CB--114E
011722.R01			12294-118CC-118
102121.03			234422

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).