



Certificate of Analysis

Sample:KN20228018-001

Harvest/Lot ID: TST136

Batch#: P0334

Seed to Sale# N/A

Batch Date: 02/01/22

Sample Size Received: 11 ml

Total Weight/Volume: N/A

Retail Product Size: 1 gram

ordered : 02/18/22

sampled : 02/18/22

Completed: 03/06/22 Expires: 03/06/23

Sampling Method: SOP Client Method

TESTED

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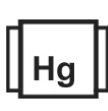
Mar 06, 2022 | Hemplucid
4484 N 300 W
Provo, UT, 84604, US



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



Terpenes
TESTED

MISC.

CANNABINOID RESULTS



Total THC
0.307%



Total d8-THC
74.948%



Total Cannabinoids
76.57%

	TOTAL THC	TOTAL CBD	TOTAL CBG	CBGV	CBDA	CBGA	CBG	CBD	THCV	CBN	EXO-THC	D9-THC	D8-THC	D10-THC	CBC	THCA	D8-THCO	D9-THCO	THC-O
%	0.307	0.055	ND	<0.01	<0.01	<0.01	<0.01	0.055	0.081	0.453	ND	0.299	74.948	0.097	0.627	0.01	ND	ND	ND
mg/ml	3.07	0.55	ND	<0.1	<0.1	<0.1	<0.1	0.55	0.81	4.53	ND	2.99	749.48	0.97	6.27	0.1	ND	ND	ND
LOD	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002
%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%

Cannabinoid Profile Test

Analized by 113	Weight 0.2054g	Extraction date : 02/28/22 06:02:05	Extracted By : 113
Analysis Method -Expanded Measurement of Uncertainty: Flower Matrix d9-THC:12.7%, THCA: 9.5%, TOTAL THC 11.1%. These uncertainties represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor k=2 for a normal distribution.			
Analytical Batch -KN0502024POT Instrument Used : HPLC E-594-005 Running On :			
Reagent 081321.R04 023322.R01 021622.R03	Dilution 40	Consumables ID 947.251 12123-048CC-046	Reviewed On - 03/01/22 17:24:53
Batch Date : 02/28/22 15:14:10			

Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with UV/PDA detection (HPLC-UV/PDA). (Method: SOP.T.30.031.TN for sample prep and Shimadzu High Sensitivity Method SOP.T.40.031 for analysis.) *Based on FL action limits.

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 for human safety for consumption and/or inhalation. The result >99% are 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.

Sue Ferguson

Lab Director

State License # n/a
ISO Accreditation # 17025:2017

Sue Ferguson
Signature

03/06/22

Signed On



Certificate of Analysis

TESTED

Hemplucid

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Telephone: (719) 231-8261
Email: sarah@hemplucid.com

Sample : KN20228018-001
Harvest/Lot ID: TST136

Batch# : PO334
Sampled : 02/18/22
Ordered : 02/18/22

Sample Size Received : 11 ml
Total Weight/Volume : N/A
Completed : 03/06/22 Expires: 03/06/23
Sample Method : SOP Client Method

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Terpenes

TESTED

Terpenes	LOD(%) mg/ml	%
TRANS-CARYOPHYLLENE	0.007 ND	ND
GUAIOL	0.007 ND	ND
LIMONENE	0.007 ND	ND
LINALOOL	0.007 ND	ND
NEROL	0.007 ND	ND
OCIMENE	0.007 ND	ND
ALPHA-PHELLANDRENE	0.007 ND	ND
PULEGONE	0.007 ND	ND
SABINENE	0.007 ND	ND
SABINENE HYDRATE	0.007 ND	ND
TERPINEOL	0.007 ND	ND
TERPINOLENE	0.007 ND	ND
GERANYL ACETATE	0.007 ND	ND
TRANS-NEROLIDOL	0.007 ND	ND
VALENCENE	0.007 ND	ND
ISOPULEGOL	0.007 ND	ND
ALPHA-HUMULENE	0.007 ND	ND
ALPHA-PINENE	0.007 ND	ND
ALPHA-TERPINENE	0.007 ND	ND
BETA-MYRCENE	0.007 ND	ND
BETA-PINENE	0.007 ND	ND
BORNEOL	0.013 ND	ND
CAMPHENE	0.007 ND	ND
CAMPHOR	0.013 ND	ND
CARYOPHYLLENE OXIDE	0.007 ND	ND
CEDROL	0.007 ND	ND
ALPHA-BISABOLOL	0.007 ND	ND
ALPHA-CEDRENE	0.007 ND	ND
CIS-NEROLIDOL	0.007 ND	ND
3-CARENE	0.007 ND	ND
FENCHYL ALCOHOL	0.007 ND	ND

Result (%)

Terpenes

LOD(%) mg/ml %

Result (%)

HEXAHYDROTHYMOL	0.007 ND	ND
EUCALYPTOL	0.007 ND	ND
ISOBORNEOL	0.007 ND	ND
FARNESENE	0.007 ND	ND
FENCHONE	0.007 ND	ND
GAMMA-TERPINENE	0.007 ND	ND
GERANIOL	0.007 ND	ND



Terpenes

TESTED

Analyzed by
1

Weight
1.0707g

Extraction date
03/04/22 03:03:15

Extracted By
138

Analysis Method - SOP.T.40.090
Analytical Batch - KN002041TER
Instrument Used : E-SHI-109 Terpenes
Running On :
Batch Date : 03/03/22 09:08:19

Reviewed On - 03/06/22 14:54:44

Reagent

Dilution
10

Consums. ID

Terpenoid profile screening is performed using GC-MS with Liquid Injection (Gas Chromatography - Mass Spectrometer) which can screen 38 terpenes using Method SOP.T.40.090 Terpenoid Analysis Via GC-MS. Analytes ISO Pending

Total (%)

0



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 Email: sarah@hemplucid.com


 Sample : KN20228018-001
 Harvest/Lot ID: TST136

 Batch# : PO334
 Sampled : 02/18/22
 Ordered : 02/18/22

 Sample Size Received : 11 ml
 Total Weight/Volume : N/A
 Completed : 03/06/22 Expires: 03/06/23
 Sample Method : SOP Client Method

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 Pesticides						PASSED					
Pesticides	LOD	Units	Action Level	Pass/Fail	Result	Pesticides	LOD	Units	Action Level	Pass/Fail	Result
ABAMECTIN B1A	0.01	ppm	0.3	PASS	ND	PIPERONYL BUTOXIDE	0.01	ppm	3	PASS	ND
ACEPHATE	0.01	ppm	3	PASS	ND	PRALLETHRIN	0.01	ppm	0.4	PASS	ND
ACEQUINOCYL	0.01	ppm	2	PASS	ND	PROPICONAZOLE	0.01	ppm	1	PASS	0.107
ACETAMIPRID	0.01	ppm	3	PASS	ND	PROPOXUR	0.01	ppm	0.1	PASS	ND
ALDICARB	0.01	ppm	0.1	PASS	ND	PYRETHRINS	0.01	ppm	1	PASS	ND
AZOXYSTROBIN	0.01	ppm	3	PASS	ND	PYRIDABEN	0.01	ppm	3	PASS	ND
BIFENAZATE	0.01	ppm	3	PASS	ND	SPINETORAM	0.01	ppm	3	PASS	ND
BIFENTHRIN	0.01	ppm	0.5	PASS	ND	SPIROMESIFEN	0.01	ppm	3	PASS	ND
BOSCALID	0.01	ppm	3	PASS	ND	SPIROTETRAMAT	0.01	ppm	3	PASS	ND
CARBARYL	0.01	ppm	0.5	PASS	ND	SPIROXAMINE	0.01	ppm	0.1	PASS	ND
CARBOFURAN	0.01	ppm	0.1	PASS	ND	TEBUCONAZOLE	0.01	ppm	1	PASS	ND
CHLORANTRANILIPROLE	0.01	ppm	3	PASS	ND	THIACLOPRID	0.01	ppm	0.1	PASS	ND
CHLORMEQUAT CHLORIDE	0.01	ppm	3	PASS	ND	THIAMETHOXAM	0.01	ppm	1	PASS	ND
CHLORPYRIFOS	0.01	ppm	0.1	PASS	ND	TOTAL SPINOSAD	0.01	ppm	3	PASS	ND
CLOFENTHEZINE	0.01	ppm	0.5	PASS	ND	TRIFLOXYSTROBIN	0.01	ppm	3	PASS	ND
COUMAPHOS	0.01	ppm	0.1	PASS	ND						
CYPERMETHRIN	0.01	ppm	1	PASS	ND						
DAMINOZIDE	0.01	ppm	0.1	PASS	ND						
DIAZANON	0.01	ppm	0.2	PASS	ND						
DICHLORVOS	0.01	ppm	0.1	PASS	ND						
DIMETHOATE	0.01	ppm	0.1	PASS	ND						
DIMETHOMORPH	0.01	ppm	3	PASS	ND						
ETHOPROPHOS	0.01	ppm	0.1	PASS	ND						
ETOFENPROX	0.01	ppm	0.1	PASS	ND						
ETOXAZOLE	0.01	ppm	1.5	PASS	ND						
FENHEXAMID	0.01	ppm	3	PASS	ND						
FENOXYCARB	0.01	ppm	0.1	PASS	ND						
FENPYROXIMATE	0.01	ppm	2	PASS	ND						
FIPRONIL	0.01	ppm	0.1	PASS	ND						
FLONICAMID	0.01	ppm	2	PASS	ND						
FLUDIOXONIL	0.01	ppm	3	PASS	ND						
HEXYTHIAZOX	0.01	ppm	2	PASS	ND						
IMAZALIL	0.01	ppm	0.1	PASS	ND						
IMIDACLOPRID	0.01	ppm	3	PASS	ND						
KRESOXIM-METHYL	0.01	ppm	1	PASS	ND						
MALATHION	0.01	ppm	2	PASS	ND						
METALAXYL	0.01	ppm	3	PASS	ND						
METHIOCARB	0.01	ppm	0.1	PASS	ND						
METHOMYL	0.01	ppm	0.1	PASS	ND						
MEVINPHOS	0.01	ppm	0.1	PASS	ND						
MYCLOBUTANIL	0.01	ppm	3	PASS	ND						
NALED	0.01	ppm	0.5	PASS	ND						
OXAMYL	0.01	ppm	0.5	PASS	ND						
PACLOBUTRAZOL	0.01	ppm	0.1	PASS	ND						
PERMETHRINS	0.01	ppm	1	PASS	ND						
PHOSMET	0.01	ppm	0.2	PASS	ND						



Pesticides

PASSED

Analyzed by 143	Weight 0.5014g	Extraction date 03/01/22 03:03:26	Extracted By 143
Analysis Method - SOP.T.30.060, SOP.T.40.060, Analytical Batch - KN002022PES Instrument Used : E-SHI-125 Pesticides Running On : 02/28/22 15:02:59			
			Batch Date : 02/28/22 13:40:04
Reagent 020322.R13 110521.03 022322.R02 021722.R02 022822.R01 020922.R08	Dilution 10	Consumables ID 210419634 947.251	
Pesticide analysis is performed using LC-MSMS which can quantify down to below single digit ppb concentrations for regulated Pesticides. Currently we analyze for 61 Pesticides. (Methods: SOP.T.30.065 Sample Preparation for Pesticides Analysis via LCMSMS and SOP.T40.065 Procedure for Pesticide Quantification Using LCMSMS). *Based on FL action limits. *			



Certificate of Analysis

TESTED
Hemplucid

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Sample : KN20228018-001
Harvest/Lot ID: TST136
Batch# : PO334
Sampled : 02/18/22
Ordered : 02/18/22

Sample Size Received : 11 ml
Total Weight/Volume : N/A
Completed : 03/06/22 **Expires:** 03/06/23
Sample Method : SOP Client Method

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Residual Solvents

PASSED

Solvent	LOD	Units	Action Level	Pass/Fail	Result
PROPANE	500	ppm	2100	PASS	ND
BUTANES (N-BUTANE)	500	ppm	2000	PASS	ND
METHANOL	25	ppm	3000	PASS	ND
ETHYLENE OXIDE	0.5	ppm	5	PASS	ND
PENTANES (N-PENTANE)	75	ppm	5000	PASS	ND
ETHANOL	500	ppm	5000	PASS	ND
ETHYL ETHER	50	ppm	5000	PASS	ND
1,1-DICHLOROETHENE	0.8	ppm	8	PASS	ND
ACETONE	75	ppm	5000	PASS	ND
2-PROPANOL	50	ppm	500	PASS	ND
ACETONITRILE	6	ppm	410	PASS	ND
DICHLOROMETHANE	12.5	ppm	600	PASS	ND
N-HEXANE	25	ppm	290	PASS	ND
ETHYL ACETATE	40	ppm	5000	PASS	ND
CHLOROFORM	0.2	ppm	60	PASS	ND
BENZENE	0.1	ppm	2	PASS	ND
1,2-DICHLOROETHANE	0.2	ppm	5	PASS	ND
HEPTANE	500	ppm	5000	PASS	ND
TRICHLOROETHYLENE	2.5	ppm	80	PASS	ND
TOLUENE	15	ppm	890	PASS	ND
TOTAL XYLENES - M, P & O - DIMETHYLBENZENE	15	ppm	2170	PASS	ND



Residual Solvents

PASSED

Analyzed by 143	Weight 0.02395g	Extraction date 03/02/22 10:03:39	Extracted By 143
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Analysis Method -SOP.T.40.032
Analytical Batch -KN002037SOL
Instrument Used : E-SHI-106 Residual Solvents
Running On : 03/02/22 10:30:16
Batch Date : 03/02/22 08:31:31
Reviewed On - 03/03/22 17:18:14
Reagent

081420.01

021622.R27

021622.R28

021622.R29

Dilution

1

Consumables ID

R2017.099

G201.120

Residual solvents screening is performed using GC-MS which can detect below single digit ppm concentrations. Currently we analyze for 22 residual solvents. (Method: SOP.T.40.032 Residual Solvents Analysis via GC-MS). Analytes ISO pending. *Based on FL action limits.



Certificate of Analysis

TESTED
Hemplucid

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Email: sarah@hemplucid.com

Sample : KN20228018-001
Harvest/Lot ID: TST136
Batch# : PO334
Sampled : 02/18/22
Ordered : 02/18/22

Sample Size Received : 11 ml
Total Weight/Volume : N/A
Completed : 03/06/22 **Expires:** 03/06/23
Sample Method : SOP Client Method

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	Microbials	PASSED		Heavy Metals	PASSED
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Analyte	LOD	Result	Pass / Fail
LISTERIA MONOCYTOGENE	2000	not present in 1 gram.	PASS
ESCHERICHIA COLI SHIGELLA SPP	1726	not present in 1 gram.	PASS
SALMONELLA SPECIFIC GENE	10000	not present in 1 gram.	PASS
ASPERGILLUS FLAVUS	10000	not present in 1 gram.	PASS
ASPERGILLUS FUMIGATUS	10000	not present in 1 gram.	PASS
ASPERGILLUS NIGER	10000	not present in 1 gram.	PASS
ASPERGILLUS TERREUS	10000	not present in 1 gram.	PASS

Analysis Method -SOP.T.40.043
Analytical Batch -KN002030MIC Batch Date : 03/01/22 11:31:11
Instrument Used : Micro E-HEW-069
Running On :

Analyzed by	Weight	Extraction date	Extracted By
1	1.0334g	03/01/22 12:03:35	1692

Reagent	Dilution
030121.01	1
122921.02	
121721.04	
030421.11	

Microbiological testing for Fungal and Bacterial Identification via Polymerase Chain Reaction (PCR) method consisting of sample DNA amplified via tandem Polymerase Chain Reaction (PCR) as a crude lysate which avoids purification. (Method SOP.T.40.043) If a pathogenic Escherichia Coli, Salmonella, Aspergillus fumigatus, Aspergillus flavus, Aspergillus niger, or Aspergillus terreus is detected in 1g of a sample, the sample fails the microbiological-impurity testing.

Metal	LOD	Unit	Result	Pass / Fail	Action Level
ARSENIC-AS	0.02	ppm	ND	PASS	1.5
CADMIUM-CD	0.02	ppm	ND	PASS	0.5
MERCURY-HG	0.02	ppm	ND	PASS	3
LEAD-PB	0.02	ppm	ND	PASS	0.5

Analyzed by	Weight	Extraction date	Extracted By
12	9g	NA	NA

Analysis Method -SOP.T.40.050, SOP.T.30.052
Analytical Batch -KN002025HEA | Reviewed On - 03/01/22 17:21:11
Instrument Used : Metals ICP/MS
Running On : | Batch Date : 02/28/22 16:20:35

Reagent	Reagent	Dilution	Consums. ID
121421.03	020422.R07	1	107702-05-081520
011022.R08			12235-110CD-110C
011022.R07			
122121.R23			

Heavy Metals screening is performed using ICP-MS (Inductively Coupled Plasma – Mass Spectrometer) which can screen down to below single digit ppb concentrations for regulated heavy metals using Method SOP.T.30.052 Sample Preparation for Heavy Metals Analysis via ICP-MS and SOP.T.40.050 Heavy Metals Analysis via ICP-MS.