



Certificate of Analysis

Sample: DE01104009-007
Harvest/Lot ID: O-CO2-YP5-29220-B1
Seed to Sale #NA
Batch Date :10/18/20
Batch#: 2020-892
Sample Size Received: 10 gram
Retail Product Size: 1 gram
Ordered : 11/02/20
Sampled : 11/02/20
Completed: 11/11/20 Expires: 11/11/21
Sampling Method: SOP-024

PASSED

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Nov 11, 2020 | Hemplucid

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

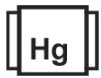


SAFETY RESULTS

MISC.



Pesticides
PASSED



Heavy Metals
PASSED



Microbials
PASSED



Mycotoxins
PASSED



Residuals Solvents
PASSED



Filtth
PASSED



Water Activity
NOT TESTED



Moisture
NOT TESTED



Homogeneity
NOT TESTED



Terpenes
TESTED

CANNABINOID RESULTS



Total THC
3.168%
THC/Container :31.690 mg



Total CBD
54.811%
CBD/Container :548.112 mg



Total Cannabinoids
61.594%
Total Cannabinoids/Container :615.941 mg

	CBDV	CBDVA	CBG	CBD	CBDA	THCV	CBGA	CBN	EXO-THC	D9-THC	D8-THC	CBL	THCVA	CBC	CBNA	THCA	CBLA	CBCA
	1.17%	ND	ND	54.81%	ND	ND	ND	0.15%	0.61%	3.17%	ND	ND	ND	1.69%	ND	ND	ND	ND
	11.66 mg/g	ND	ND	548.11 mg/g	ND	ND	ND	1.53 mg/g	6.05 mg/g	31.68 mg/g	ND	ND	ND	16.88 mg/g	ND	ND	ND	ND
LOD	0.00265 %	0.00100 %	0.00219 %	0.00002 %	0.00001 %	0.00205 %	0.00192 %	0.00000 %	0.00023 %	0.00002 %	0.00268 %	0.00092 %	0.00071 %	0.00286 %	0.00091 %	0.00001 %	0.00116 %	0.00210 %

Cannabinoid Profile Test

Analyzed by 8	Weight 0.1665g	Extraction date : 11/09/20 06:11:45	Extracted By : 667
Analysis Method -SOP-020 (R15)	Reviewed On - 11/11/20 09:05:00	Batch Date : 11/09/20 13:11:41	
Analytical Batch -DE001158POT	Instrument Used : Agilent 1100 "Falcon" Running On :		
Reagent	Dilution	Consums. ID	Consums. ID
092520.R02	200	092120	61338-025C6-025H
110420.R07		9212322	
110920.01		00300153-7	
		ROBB28597	
		031CC-031	
		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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Stephen Goldman
Lab Director
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Signature

11/11/2020

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Terpenes

TESTED

Terpenes	LOD	Units	Result (%)
GAMMA-TERPINENE	0.002	%	ND
BISABOLENE	0.002	%	ND
MENTHOL	0.002	%	ND
2-ETHYL-FENCHOL	0.002	%	ND
BETA-CARYOPHYLLENE	0.002	%	0.575
TERPINOLENE	0.002	%	ND
ALPHA-TERPINEOL	0.002	%	<0.020
PULEGONE	0.002	%	ND
CIS-OCIMENE	0.002	%	ND
LINALOOL	0.002	%	0.022
(-)-GUAJOL	0.002	%	0.530
GERANIOL	0.002	%	ND
HUMULENE	0.002	%	0.280
NEROLIDOL	0.002	%	ND
(-)-ISOPULEGOL	0.002	%	ND
(-)-ALPHA-BISABOLOL	0.002	%	1.383
(-)-CARYOPHYLLENE OXIDE	0.002	%	ND
BORNEOL	0.002	%	<0.040
ALPHA-PINENE	0.002	%	ND
CAMPHENE	0.002	%	ND
BETA-PINENE	0.002	%	ND
MYRCENE	0.002	%	ND
DELTA-3-CARENE	0.002	%	ND
ALPHA-TERPINENE	0.002	%	ND
P-CYMENE	0.002	%	ND
LIMONENE	0.002	%	ND
EUCALYPTOL	0.002	%	ND

Total 2.791



Terpenes

TESTED

Analyzed by	Weight	Extraction date	Extracted By
7	0.1665g	11/09/20 06:11:47	667
Analysis Method -SOP-067 (R0)		Reviewed On - 11/10/20 13:54:22	
Analytical Batch -DE001159TER		Instrument Used : GC 6890	
Running On :			
Batch Date : 11/09/20 18:20:59			
Reagent	Dilution	Consums. ID	
110920.R06	40	092120	
110420.R03		HWK-TP3ML	
		9212322	
		00300153-7	
		280674667	
		190919059	

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 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	ND
SPINOSADS	0.0134	ppb	60	ND
SPIROMESIFEN	0.0499	ppb	30	ND
SPIROTETRAMAT	0.0301	ppb	20	ND
TEBUCONAZOLE	0.0103	ppb	10	ND



Pesticides

PASSED

Analyzed by 9	Weight 0.1441g	Extraction date 11/09/20 05:11:47	Extracted By 9
Analysis Method - SOP-060 (R5)		Reviewed On- 11/06/20 08:27:05	
Analytical Batch - DE001155PES			
Instrument Used : Sciex 6500 Qtrap - Pesticides			
Running On : 11/09/20 17:24:30			
Batch Date : 11/09/20 12:42:18			

Reagent	Dilution	Consums. ID
110620.R04		092120
110620.R04	25	9212322
110620.R06		00300153-7
110620.R04		946CE-946C
110620.R05		280674667
110920.R04		61338-025C6-025H

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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Batch# : 2020-892

Sampled : 11/02/20

Ordered : 11/02/20

Sample Size Received : 10 gram

Completed : 11/11/20 **Expires:** 11/11/21

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
BUTANES	15.794	ppm	1000	PASS	ND
METHANOL	1.27868	ppm	600	PASS	9.746
PENTANES	13.828	ppm	1000	PASS	ND
ETHANOL	2.70106	ppm	1000	PASS	92.584
ACETONE	1.708	ppm	1000	PASS	8.579
2-PROPANOL	1.58756	ppm	1000	PASS	22.470
HEXANES	1.92798	ppm	60	PASS	ND
ETHYL ACETATE	2.79218	ppm	1000	PASS	ND
BENZENE	0.47491	ppm	2	PASS	ND
HEPTANE	3.25945	ppm	1000	PASS	ND
TOLUENE	2.10881	ppm	180	PASS	ND
XYLENES	7.115	ppm	430	PASS	ND

Analyzed by	Weight	Extraction date	Extracted By
7	0.1771g	11/07/20 01:11:48	7
Analysis Method -SOP-032 (R18)			
Analytical Batch -DE001152SOL		Reviewed On - 11/08/20 10:31:45	
Instrument Used : GC 5890			
Running On :			
Batch Date : 11/06/20 16:47:15			
Reagent	Dilution	Consums. ID	
102120.R07	1	24154674	
110620.R06		170029-7	
		61338-025C6-025H	

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 Method : SOP-024

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Microbials

PASSED



Mycotoxins

PASSED

Analyte	LOD	Result
SALMONELLA_SPECIES		not present in 1 gram.
SHIGA_TOXIN_PRODUCING_ESCHERICHIA_COLI_STEC		not present in 1 gram.
TOTAL_YEAST_AND_MOLD		not present in 1 gram.

Analysis Method -SOP-061 (R2); SOP-062 (R2); SOP-063 (R1)
Analytical Batch -DE001146MIC Batch Date : 11/06/20
Instrument Used : Microbial - Full Panel
Running On : 11/06/20

Analyzed by	Weight	Extraction date	Extracted By
5	0.98g	11/06/20	5

Reagent	Reagent	Reagent	Reagent	Consums. ID	Consums. ID
102720.02	102120.R06	101720.R05	110920.R01	61338-025C6-025H	NT10-1212
101720.R04	090520.R02	110620.R02		40898-021C4-021AI	20/01/15 exp 02/15/2025
101720.R06	080720.03	082720.08		MKCN2192	00098
110420.R05	081220.02	100620.25		11989-024CC-024	00019
103120.R02	100419.03	110420.R01		04620005	CH2044949
110220.R03	110620.R01	103120.R01		0	

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 -DE001151MYC | Reviewed On - 11/09/20 12:27:20
Instrument Used : Sciex 6500 Qtrap - Mycotoxins
Running On :
Batch Date : 11/06/20 16:33:00

Analyzed by	Weight	Extraction date	Extracted By
9	0.1441g	11/06/20 04:11:42	9

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
092120.02	110420.04	50	40590-842C4-842C
110520.R02			040CB-040D
110520.R01			031CC-031
081020.02			923C4-923AK
102720.R02			
110520.R03			

Metal	LOD	Unit	Result	Action Level (PPM)
MERCURY	0.0035	ppm	ND	0.1
LEAD	0.0101	ppm	ND	0.5
CADMIUM	0.0016	ppm	ND	0.2
ARSENIC	0.0020	ppm	ND	0.2

Analyzed by	Weight	Extraction date	Extracted By
666	0.2190g	11/06/20 04:11:11	666

Analysis Method -SOP-050 (R5)
Analytical Batch -DE001147HEA | Reviewed On - 11/09/20 10:58:37
Instrument Used : Shimadzu 2030 ICP-MS
Running On : 11/09/20 08:38:48
Batch Date : 11/06/20 11:04:25

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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Sample Method : SOP-024

Page 6 of 6

	Filth	PASSED
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Analyzed By Weight Extraction date

2 NA NA

LOD(ppm) Extracted By

NA

Analysis Method -SOP.T.40.013 Batch Date :

Analytical Batch -NA

Reviewed On - 11/06/20 08:27:05

Instrument Used :

Running On :

This includes but is not limited to hair, insects, feces, packaging contaminants, and manufacturing waste and by-products. An SH-2B/T Stereo Microscope is use for inspection.

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