



Certificate of Analysis

Mar 04, 2022 | Hemplucid

License # 405R-00011

4844 N. 300 W. Ste. 202

Provo, UT, 84604, US


Sample: DE20222013-006

Harvest/Lot ID: O-CO2-YP5-03922-BT8

Batch#: 2021-705Partial-2

Seed to Sale# 1A4000B00010D25000001253

Batch Date: 02/08/22

Sample Size Received: 7 gram

Total Weight/Volume: N/A

Retail Product Size: 1 gram

ordered : 02/18/22

sampled : 02/18/22

Completed: 03/04/22

Sampling Method: SOP-024

PASSED

Page 1 of 5

PRODUCT IMAGE

SAFETY RESULTS

Pesticides
PASSED

Heavy Metals
PASSED

Microbials
PASSED

Mycotoxins
PASSED

Residuals
Solvents
PASSED

Filtr
NOT TESTED

Water Activity
NOT TESTED

Moisture
NOT TESTED

Homogeneity
NOT TESTED

Terpenes
TESTED
MISC.



Certificate of Analysis

PASSED
Hemplucid

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

Sample : DE20222013-006
Harvest/Lot ID: O-CO2-YP5-03922-BT8
Batch# : 2021-705Partial-2

Sampled : 02/18/22

Ordered : 02/18/22

Sample Size Received : 7 gram

Total Weight/Volume : N/A

Completed : 03/04/22 **Expires:** 03/04/23

Sample Method : SOP-024

Page 2 of 5



Terpenes

TESTED

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-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	3.9	0.39
HUMULENE	0.002	2.06	0.206
BISABOLENE	0.002	ND	ND
NEROLIDOL	0.002	0.28	0.028
(-)-CARYOPHYLLENE OXIDE	0.002	ND	ND
(-)-GUAJOL	0.002	4.27	0.427
(-)-ALPHA-BISABOLOL	0.002	14.67	1.467

Total (%) 2.518

Terpenes LOD(%) mg/g % Result (%)



Terpenes

TESTED

Analyzed by 1 Weight 0.1666g Extraction date 02/23/22 01:02:01 Extracted By 1542

 Analysis Method - SOP-067 (R0)
 Analytical Batch - DE003055TER
 Instrument Used : GC 6890
 Running On : 02/23/22 16:22:43
 Batch Date : 02/23/22 13:37:40

Reviewed On - 02/24/22 11:19:59

Reagent	Dilution	Consums. ID
022222.R04	40	24169051
		1154419
		00291464
		298076054
		12265-116CC-116

Terpenoid profile screening is performed by GC-FID with liquid injection via SOP-067 (R0) which can screen for 28 terpenes.



Certificate of Analysis

PASSED
Hemplucid

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

Sample : DE20222013-006
Harvest/Lot ID: O-CO2-YP5-03922-BT8
Batch# : 2021-705Partial-2

Sampled : 02/18/22

Ordered : 02/18/22

Sample Size Received : 7 gram

Total Weight/Volume : N/A

Completed : 03/04/22 **Expires:** 03/04/23

Sample Method : SOP-024

Page 3 of 5

Pesticides						PASSED					
Pesticides	LOD	Units	Action Level	Pass/Fail	Result	Pesticides	LOD	Units	Action Level	Pass/Fail	Result
OTHER PESTICIDES	0.1	ppb	100	PASS	ND	PASSED					
AVERMECTINS	0.0271	ppb	70	PASS	ND						
AZOXYSTROBIN	0.014	ppb	20	PASS	ND						
BIFENAZOLE	0.011	ppb	20	PASS	ND						
ETOXAZOLE	0.006	ppb	10	PASS	ND						
IMAZALIL	0.064	ppb	40	PASS	ND						
IMIDACLOPRID	0.007	ppb	20	PASS	ND						
MALATHION	0.011	ppb	50	PASS	ND						
MYCLOBUTANIL	0.013	ppb	40	PASS	ND						
PERMETHRINS	0.0131	ppb	40	PASS	ND						
SPIROMESIFEN	0.049	ppb	30	PASS	ND						
SPIROTETRAMAT	0.03	ppb	20	PASS	ND						
SPIROSADS	0.0134	ppb	60	PASS	ND						
TEBUCONAZOLE	0.01	ppb	10	PASS	ND						

Analyzed by 1253	Weight 0.16g	Extraction date 02/23/22 10:02:30	Extracted By 1696
Analysis Method - SOP-060 (R5), Analytical Batch - DE003038PES Instrument Used : Sciex 6500 Qtrap - Pesticides			
Running On :		Batch Date : 02/18/22 12:00:54	
Reagent	Dilution	Consumables ID	
020822.R02	25	24169051	
021422.R12		1253104	
020822.R03		00291464	
021622.R12		114CB-114E	
020722.R07		298076054	
021922.R01		16564-106C6-106H	
021922.R02			
Pesticide screen is performed using LC-MS which can screen down to below single digit ppb concentration for regulated Pesticides via SOP-060 (R5). *			



Certificate of Analysis

PASSED
Hemplucid

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

Sample : DE20222013-006

Harvest/Lot ID: O-CO2-YP5-03922-BT8

Batch# : 2021-705Partial-2

Sampled : 02/18/22

Ordered : 02/18/22

Sample Size Received : 7 gram

Total Weight/Volume : N/A

Completed : 03/04/22 **Expires:** 03/04/23

Sample Method : SOP-024

Page 4 of 5



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	ND
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	22.274
ACETONE	1.708	ppm	1000	PASS	7.611
2-PROPANOL	1.58756	ppm	1000	PASS	ND
HEXANES	1.92798	ppm	60	PASS	ND



Residual Solvents

PASSED

Analyzed by 1	Weight 0.2408g	Extraction date 02/24/22 02:02:21	Extracted By 1253
-------------------------	--------------------------	---	-----------------------------

Analysis Method -SOP-032 (R18)
Analytical Batch -DE003058SOL
Instrument Used : GC 5890

Running On :
Batch Date : 02/24/22 11:11:40

Reviewed On - 02/25/22 15:10:04

Reagent 021622.R06	Dilution 1	Consumables ID MKCN2192 24160453 31726-2-1 5079-525C6-525E
------------------------------	----------------------	---

Residual solvents screening is performed using GCwhich can detect below single digit ppm concentrations. Currently we analyze for 15 Residual solvents.



Certificate of Analysis

PASSED
Hemplucid

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

Sample : DE20222013-006

Harvest/Lot ID: O-CO2-YP5-03922-BT8

Batch# : 2021-705Partial-2

Sampled : 02/18/22

Ordered : 02/18/22

Sample Size Received : 7 gram

Total Weight/Volume : N/A

Completed : 03/04/22 **Expires:** 03/04/23

Sample Method : SOP-024

Page 5 of 5

	Microbials	PASSED
	Mycotoxins	PASSED

Analyte	LOD	Result	Pass / Fail
TOTAL YEAST AND MOLD	100	not present in 1 gram.	PASS
SHIGA TOXIN PRODUCING ESCHERICHIA COLI STEC	1	not present in 1 gram.	PASS
SALMONELLA SPECIES	1	not present in 1 gram.	PASS
MICROBIALS	10	not present in 1 gram.	PASS

Analysis Method -SOP-061 (R2); SOP-062 (R2); SOP-063 (R1)
Analytical Batch -DE003053MIC Batch Date : 02/23/22 11:22:30
Instrument Used : Microbial - Full Panel
Running On : 02/25/22 16:26:20

Analyzed by	Weight	Extraction date	Extracted By
5	2.66g	02/23/22 12:02:34	1473

Reagent	Reagent	Reagent	Dilution	Consums. ID	Consums. ID	Consums. ID
022222.R01	122121.R07	122321.01	1	16564-106C6-106H	1	C_2142603
022122.R10	020122.R12	022221.68		40898-021C4-021AI	NT10-1212	
022322.R03	021522.14	021722.R04		0	20/08/30	
112921.R19	121721.01	022222.R08		CBJA91005	01860	
022122.R11	110821.04	022422.R05		210622-688	00104	
101521.R04	110821.02	011422.16		12265-116CC-116	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.

Analyte	LOD	Units	Result	Pass / Fail	Action Level
AFLATOXINS		ppb	0	PASS	20
MYCOTOXIN IS-1 (D9-PIPERONYL BUTOXIDE)		ppb	130.538	PASS	
MYCOTOXIN IS-2 (D6-DICHLORVOS)		ppb	146.257	PASS	
MYCOTOXIN IS-3 (D4-THIAMETHOXAM)		ppb	109.179	PASS	
AFLATOXIN B1	1.327	ppb	ND	PASS	20
AFLATOXIN B2	0.09	ppb	ND	PASS	20
AFLATOXIN G1	0.18	ppb	ND	PASS	20
AFLATOXIN G2	0.303	ppb	ND	PASS	20
OCHRATOXIN A+	0.049	ppb	ND	PASS	20

Analysis Method -SOP-060 (R5)
Analytical Batch -DE003039MYC | Reviewed On - 02/24/22 11:35:39
Instrument Used : Sciex 6500 Qtrap - Mycotoxins
Running On : 02/18/22 14:12:38 | Batch Date : 02/18/22 12:02:06

Analyzed by	Weight	Extraction date	Extracted By
1253	0.16g	02/24/22 11:02:25	1253

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
---	---------------------	---------------

Metal	LOD	Unit	Result	Pass / Fail	Action Level
ARSENIC	0.002	ppm	ND	PASS	0.2
CADMIUM	0.001	ppm	ND	PASS	0.2
MERCURY	0.003	ppm	ND	PASS	0.1
LEAD	0.01	ppm	ND	PASS	0.5

Analyzed by	Weight	Extraction date	Extracted By
7	0.2104g	NA	NA

Analysis Method -SOP-050 (R5)
Analytical Batch -DE003069HEA | Reviewed On - 03/04/22 09:43:58
Instrument Used : Shimadzu 2030 ICP-MS
Running On : | Batch Date : 02/28/22 09:16:02

Reagent	Reagent	Dilution	Consums. ID
021622.R05	021522.01	50	210316-361-B
082721.13	030122.R03		114CB-114E
071620.05	030122.R02		12265-116CC-116
022822.R09			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).