



# Certificate of Analysis

**PASSED**

Sample: DE20816004-011  
Harvest/Lot ID: 1440108  
Batch#: NO ASP - F: 10018 B: 10019  
Seed to Sale# 1A4000B00010D25000001950  
Batch Date: 08/01/22  
Sample Size Received: 1 units  
Total Batch Size: N/A  
Retail Product Size: 30 gram  
Ordered : 08/12/22  
Sampled : 08/12/22  
Completed: 08/19/22  
Sampling Method: N/A

**PASSED**  
Page 1 of 5

Aug 19, 2022 | Hemplucid  
License # 405R-00011  
4844 N. 300 W. Ste. 202  
Provo, UT, 84604, US



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

 **Cannabinoid** **PASSED**



	TOTAL 9IR	CBDV	CBDVA	CBG	CBD	CBDa	THCV	CBGA	CBN	EKO-THC	CBDQ	D9-THC	D8-THC	CBL	THCVA	CBC	D10-THC	CBNA	THCA	CBCA	CBLA	THC-O-ACE
%	ND	0.0209	ND	ND	1.0063	0.0067	ND	ND	<0.0041	0.0137	ND	0.0435	ND	ND	ND	0.0298	ND	ND	ND	ND	ND	ND
mg/unit	ND	6.27	ND	ND	301.89	2.01	ND	ND	<1.23	4.11	ND	13.05	ND	ND	ND	8.94	ND	ND	ND	ND	ND	ND
LOD	0.01	0.0015	0.001	0.0021	0.0014	0.0014	0.0012	0.0003	0.0013	0.0025	0.0148	0.0012	0.0023	0.0052	0.0014	0.001	0.0021	0.0018	0.0019	0.0001	0.001	0.0004
%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%

Analyzed by: 2229, 1642, 8      Weight: 0.8649g      Extraction date: 08/17/22 17:34:11      Extracted by: 1642

Analysis Method : SOP-020 (R15)      Analytical Batch : DE003837POT      Instrument Used : Agilent 1100 "Falcon"      Running on : 08/17/22 17:51:05      Reviewed On : 08/18/22 14:32:08      Batch Date : 08/17/22 10:50:53

Dilution : 41  
Reagent : 071322.13; 062122.R15; 070922.R02; 081522.R01; 081622.R08  
Consumables : 00322643; HWK-TP3ML; 2083592; 00322250; 0000164728; 309011271; 12495-210CC-210; 923C4-923AK; 5079-525C6-525E  
Pipette : N/A

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.

**Label Claim - TESTED**

Analyte	LOD	Units	Pass/Fail	Result	Analyte	LOD	Units	Pass/Fail	Result
TOTAL CBG	0.001	mg	TESTED	<0.003	TOTAL CBN	0.001	mg	TESTED	<0.003

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



Signature

08/19/22  
Signed On



# Certificate of Analysis

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Hemplicud

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Email: sarah@hemplicud.com  
License # : 405R-00011

Sample : DE20816004-011

Harvest/Lot ID: 1440108

Batch# : NO ASP - F: 10018 B: 10019

Sampled : 08/12/22

Ordered : 08/12/22

Sample Size Received : 1 units

Total Batch Size : N/A

Completed : 08/19/22 Expires: 08/19/23

Sample Method : SOP Client Method

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## Terpenes

**TESTED**

Terpenes	LOD (%)	mg/unit	%	Result (%)	Terpenes	LOD (%)	mg/unit	%	Result (%)
ALPHA-PINENE	0.002	ND	ND		ANALYZED BY:				
CAMPENE	0.002	ND	ND		2229, 1642, 2319, 7	Weight:	0.8649g	Extraction date:	08/17/22 17:10:36
BETA-PINENE	0.002	ND	ND		Analysis Method : SOP-067 (R0)			Reviewed On :	08/18/22 13:53:30
MYRCENE	0.002	ND	ND		Analytical Batch : DE003838TER			Batch Date :	08/17/22 10:51:01
DELTA-3-CARENE	0.002	ND	ND		Instrument Used : GC 6890				
ALPHA-TERPINENE	0.002	ND	ND		Running on : 08/17/22 17:10:44				
P-CYME	0.002	ND	ND		Dilution : 41				
LIMONENE	0.002	ND	ND		Reagent : 071322.13; 081622.R08				
EUCALYPTOL	0.002	ND	ND		Consumables : 00322643; HWK-TP3ML; 2083592; 00322250; 309011271; 12495-210CC-210; 923C4-923AK				
CIS-OCIMENE	0.002	ND	ND		Pipette : N/A				
GAMMA-TERPINENE	0.002	ND	ND		Terpenoid profile screening is performed by GC-FID with liquid injection via SOP-067 (R0) which can screen for 28 terpenes.				
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	13.92	0.0464						
HUMULENE	0.002	6.84	0.0228						
BISBOLENE	0.002	ND	ND						
NEROLIDOL	0.002	ND	ND						
(-)-CARYOPHYLLENE OXIDE	0.002	ND	ND						
(-)-GUAJOL	0.002	ND	ND						
(-)-ALPHA-BISABOLOL	0.002	7.26	0.0242						
<b>Total (%)</b>				<b>0.0934</b>					



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Provo, UT, 84604, US  
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Email: sarah@hemplucid.com  
License # : 405R-00011

**Sample : DE20816004-011**

**Harvest/Lot ID: 1440108**

**Batch# : NO ASP - F: 10018 B: 10019**

**Sampled : 08/12/22**

**Ordered : 08/12/22**

**Sample Size Received : 1 units**

**Total Batch Size : N/A**

**Completed : 08/19/22 Expires: 08/19/23**

**Sample Method : SOP Client Method**

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## Pesticides

**PASSED**

Pesticide	LOD	Units	Action Level	Pass/Fail	Result	Pesticide	LOD	Units	Action Level	Pass/Fail	Result
OTHER PESTICIDES	0.1	ppb	100	PASS	ND	<b>Analyzed by:</b> 2229, 2318, 1253, 7	<b>Weight:</b> 0.1433g	<b>Extraction date:</b> 08/17/22 10:19:47	<b>Extracted by:</b> 2318		
AVERMECTINS	0.0271	ppb	70	PASS	ND	<b>Analysis Method :</b> SOP-060 (R5)					
AZOXYSTROBIN	0.014	ppb	20	PASS	ND	<b>Analytical Batch :</b> DE003822PES					
BIFENAZATE	0.011	ppb	20	PASS	ND	<b>Instrument Used :</b> Sciex 6500 Qtrap - Pesticides					
ETOXAZOLE	0.006	ppb	10	PASS	ND	<b>Running on :</b> N/A					
IMAZALIL	0.064	ppb	40	PASS	ND	<b>Dilution :</b> 25					
IMIDACLOPRID	0.007	ppb	20	PASS	ND	<b>Reagent :</b> 081322.R06; 081322.R10; 081022.R04; 081022.R02; 081322.R07; 081322.R01; 081322.R09					
MALATHION	0.011	ppb	50	PASS	ND	<b>Consumables :</b> 00322643; 00322250; 040CB-040D; 309011271; 5079-525C6-525E					
MYCLOBUTANIL	0.013	ppb	40	PASS	ND	<b>Pipette :</b> N/A					
PERMETHRINS	0.0131	ppb	40	PASS	ND	<b>Reviewed On :</b> 08/18/22 11:46:30					
SPIROMESIFEN	0.049	ppb	30	PASS	ND	<b>Batch Date :</b> 08/16/22 08:36:26					
SPIROSADs	0.0134	ppb	60	PASS	ND						
SPIROTETRAMAT	0.03	ppb	20	PASS	ND						
TEBUCONAZOLE	0.01	ppb	10	PASS	ND						

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**Dane Oberhill**

Lab Director

State License # 405R-00011

405-00008

ISO Accreditation # 4331.01



Signature

08/19/22

Signed On



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**Hemplucid**

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Email: sarah@hemplucid.com  
License # : 405R-00011

**Sample : DE20816004-011**

**Harvest/Lot ID: 1440108**

**Batch# : NO ASP - F: 10018 B: 10019**

**Sampled : 08/12/22**

**Ordered : 08/12/22**

**Sample Size Received : 1 units**

**Total Batch Size : N/A**

**Completed : 08/19/22 Expires: 08/19/23**

**Sample Method : SOP Client Method**

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## Residual Solvents

**PASSED**

Solvents	LOD	Units	Action Level	Pass/Fail	Result
PROPANE	4.2142	ppm	1000	PASS	ND
ETHYL ACETATE	2.7921	ppm	1000	PASS	ND
BUTANES	15.794	ppm	1000	PASS	ND
BENZENE	0.4749	ppm	2	PASS	ND
METHANOL	1.2786	ppm	600	PASS	ND
HEPTANE	3.2594	ppm	1000	PASS	ND
PENTANES	13.828	ppm	1000	PASS	ND
TOLUENE	2.1088	ppm	180	PASS	ND
XYLENES	7.115	ppm	430	PASS	ND
ETHANOL	2.701	ppm	1000000	PASS	ND
ACETONE	1.708	ppm	1000	PASS	ND
2-PROPANOL	1.5875	ppm	1000	PASS	ND
HEXANES	1.9279	ppm	60	PASS	ND

Analyzed by: N/A	Weight: N/A	Extraction date: N/A	Extracted by: N/A
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Analysis Method : SOP-032 (R18)  
Analytical Batch : DE003839SOL  
Instrument Used : GC 5890  
Running on : N/A

Reviewed On : 08/19/22 17:00:27  
Batch Date : 08/17/22 12:04:00

Dilution : 1  
Reagent : 080322.R06  
Consumables : 210316-361-B; 24160453; 33120320183106; 61653-121C6-121H  
Pipette : N/A

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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Sample : DE20816004-011

Harvest/Lot ID: 1440108

Batch# : NO ASP - F: 10018 B: 10019

Sampled : 08/12/22

Ordered : 08/12/22



Sample Size Received : 1 units

Total Batch Size : N/A

Completed : 08/19/22 Expires: 08/19/23

Sample Method : SOP Client Method

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 <b>Microbial</b> <span style="float: right;"><b>PASSED</b></span>						 <b>Heavy Metals</b> <span style="float: right;"><b>PASSED</b></span>					
Analyte	LOD	Units	Result	Pass / Fail	Action Level	Metal	LOD	Units	Result	Pass / Fail	Action Level
TOTAL YEAST AND MOLD	100	cfu/g	ND	PASS	10000	ARSENIC	0.002	ppm	ND	PASS	1.5
SHIGA TOXIN PRODUCING ESCHERICHIA COLI STEC	1	CFU	ND	PASS	1	CADMIUM	0.001	ppm	ND	PASS	0.5
SALMONELLA SPECIES	1	CFU	ND	PASS	1	MERCURY	0.003	ppm	ND	PASS	1
ASPERGILLUS	1	CFU	ND	PASS	1	LEAD	0.01	ppm	ND	PASS	1
<b>Analyzed by:</b> 2229, 2265, 1473 <b>Weight:</b> 4.3g <b>Extraction date:</b> 08/16/22 19:03:56 <b>Extracted by:</b> 2265						<b>Analyzed by:</b> 2229, 666, 8 <b>Weight:</b> 0.2299g <b>Extraction date:</b> 08/17/22 12:10:51 <b>Extracted by:</b> 666					
<b>Analysis Method :</b> SOP-061 (R2); SOP-062 (R2); SOP-063 (R1) <b>Analytical Batch :</b> DE003828MIC <b>Instrument Used :</b> Microbial - Full Panel <b>Running on :</b> 08/16/22 19:04:16						<b>Analysis Method :</b> SOP-050 (R5) <b>Analytical Batch :</b> DE003829HEA <b>Instrument Used :</b> Shimadzu 2030 ICP-MS <b>Running on :</b> N/A					
<b>Dilution :</b> N/A <b>Reagent :</b> 080122.R14; 070722.R03; 080222.R07; 062322.R04; 081122.R02; 081522.R13; 063022.R05; 032322.R01; 081622.R07; 081222.R01; 081122.04; 052322.02; 062322.01; 060822.10; 080422.01; 030322.06; 120921.03; 060222.11; 071522.01; 062822.02; 040820.15; 081122.R05; 081622.01 <b>Consumables :</b> 01859; 1; 61653-121C6-121H; 40898-021C4-021AI; CB1J04A91025; NT10-1212; 0000005302; 0000003320; 0000006025; CH_2149141; 00107; 2; 12495-210CC-210; 3; 4 <b>Pipette :</b> N/A						<b>Dilution :</b> 50 <b>Reagent :</b> 082721.13; 081622.R06; 081622.R05; 062121.04; 071620.05; 080322.R05 <b>Consumables :</b> 210316-361-B; 114CB--114E; 12541-224CD-224; 234422 <b>Pipette :</b> N/A					
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.											

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).



Signature