



# Certificate of Analysis

Sample: DE21130021-001

Harvest/Lot ID: 11222

Batch#: CO HEMP/7500 - 11222

Seed to Sale# 1A4000B00010D25000002359

Batch Date: 11/21/22

Sample Size Received: 26.85 gram

Total Amount: 26.85 gram

Retail Product Size: 30 ml

Ordered : 11/26/22

Sampled : 11/26/22

Completed: 12/14/22

Sampling Method: N/A

**PASSED**

Pages 1 of 5

Dec 14, 2022 | Moon Mother Hemp

License # 405R-00011

2425 Canyon Blvd  
Boulder, CO, 80302, US



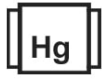
PRODUCT IMAGE



SAFETY RESULTS



Pesticides  
**PASSED**



Heavy Metals  
**PASSED**



Microbials  
**PASSED**



Mycotoxins  
**PASSED**



Residuals Solvents  
**PASSED**



Filtration  
NOT TESTED



Water Activity  
NOT TESTED



Moisture  
NOT TESTED



Homogeneity Testing  
NOT TESTED



Terpenes  
NOT TESTED

MISC.



**Cannabinoid**

**PASSED**



Total THC

**0.0248%**

Total THC/Container : 6.696 mg



Total CBD

**1.9413%**

Total CBD/Container : 524.151 mg



Total Cannabinoids

**2.0768%**

Total Cannabinoids/Container : 560.736 mg



	TOTAL 9/18 (S)-HHC	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-ACE TATE
%	ND	ND	ND	0.0336	1.9413	ND	ND	ND	<0.0041	ND	ND	0.0248	ND	ND	ND	0.0771	ND	ND	ND	ND	ND	ND
mg/g	ND	ND	ND	0.336	19.413	ND	ND	ND	<0.041	ND	ND	0.248	ND	ND	ND	0.771	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: 8, 2, 7, 2080

Weight: 0.8695g

Extraction date: 12/03/22 16:27:30

Extracted by: 2319,8

Analysis Method : SOP-020 (R15)  
Analytical Batch : DE004486POT  
Instrument Used : Agilent 1100 "Falcon"  
Running on : N/A

Reviewed On : 12/14/22 09:27:32  
Batch Date : 12/02/22 09:44:03

Dilution : 41  
Reagent : 092122.R21; 110922.R06; 112522.R01; 112822.01  
Consumables : 00322643; 426852; HWK-TP3ML; 1335696; 00322250; 635540290; 220325059-D; 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.

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**Dane Oberhill**  
Lab Director

State License # 405R-00011  
405-00008  
ISO 17025 Accreditation # 4331.01



Signature

12/14/22

Signed On



# Certificate of Analysis

**PASSED**

Moon Mother Hemp

Sample : DE21130021-001

Harvest/Lot ID: 11222

2425 Canyon Blvd  
Boulder, CO, 80302, US

Telephone: 3039057097

Email: edward@moonmotherhemp.com

License # : 405R-00011

Batch# : CO HEMP/7500 - 11222

Sampled : 11/26/22

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Sample Size Received : 26.85 gram

Total Amount : 26.85 gram

Completed : 12/14/22 Expires: 12/14/23

Sample Method : SOP Client Method

Page 2 of 5

Pesticides										PASSED				
Pesticide	LOD	Units	Action Level	Pass/Fail	Result	Pesticide	LOD	Units	Action Level	Pass/Fail	Result			
ACETAMIPRID	0.225	ppb	50	PASS	ND	METHOPRENE	0.4892	ppb	2000	PASS	ND			
ALDICARB	0.4206	ppb	500	PASS	ND	METHOPHOS	0.0432	ppb	25	PASS	ND			
ALLETHRIN	0.3601	ppb	100	PASS	ND	MGK-264	0.1438	ppb	50	PASS	ND			
ATRAZINE	1.064	ppb	25	PASS	ND	NALED	0.4305	ppb	100	PASS	ND			
AZADIRACTIN	1.1979	ppb	500	PASS	ND	NOVALURON	0.2164	ppb	25	PASS	ND			
BENZOVINDIFLUPYR	0.3651	ppb	10	PASS	ND	OXAMYL	0.376	ppb	1500	PASS	ND			
BIFENTHRIN	0.3469	ppb	1000	PASS	ND	PACLOBUTRAZOL	1.4227	ppb	10	PASS	ND			
BOSCALD	0.3057	ppb	10	PASS	ND	PHENOTHIRIN	0.306	ppb	50	PASS	ND			
BUPROFEZIN	0.3	ppb	20	PASS	ND	PHOSMET	0.2483	ppb	20	PASS	ND			
CARBARYL	0.3165	ppb	25	PASS	ND	PIPERONYL BUTOXIDE	0.3284	ppb	1250	PASS	ND			
CARBOFURAN	0.3317	ppb	10	PASS	ND	PIRIMICARB	0.3458	ppb	10	PASS	ND			
CHLORANTRANILIPROLE	0.4629	ppb	20	PASS	ND	PRALLETHRIN	0.6623	ppb	50	PASS	ND			
CHLORPYRIFOS	0.2889	ppb	500	PASS	ND	PROPICONAZOLE	0.5658	ppb	10	PASS	ND			
CLOFENTEZINE	0.3505	ppb	10	PASS	ND	PROPOXUR	0.7835	ppb	10	PASS	ND			
CLOTHIANIDIN	0.537	ppb	25	PASS	ND	PRYACLOSTROBIN	0.2379	ppb	10	PASS	ND			
COUMAPHOS	0.2529	ppb	10	PASS	ND	PYRETHRINS	0.181	ppb	50	PASS	ND			
CYANTRANILIPROLE	0.5411	ppb	10	PASS	ND	PYRIDABEN	0.298	ppb	20	PASS	ND			
CYFLUTHRIN	0.6072	ppb	200	PASS	ND	PYRIPROXYFEN	0.8551	ppb	10	PASS	ND			
CYPERMETHRIN	0.3065	ppb	300	PASS	ND	RESMETHRIN	0.2008	ppb	50	PASS	ND			
CYPRODINIL	0.4377	ppb	10	PASS	ND	SPINETORAM	0.1177	ppb	10	PASS	ND			
DAMINOZIDE	4.9907	ppb	100	PASS	ND	SPIRODICLOFEN	0.183	ppb	250	PASS	ND			
DELTA METHRIN	0.8431	ppb	500	PASS	ND	SPIROXAMINE	0.3745	ppb	100	PASS	ND			
DIAZINON	0.2055	ppb	20	PASS	ND	TEBUFENOZIDE	0.2154	ppb	10	PASS	ND			
DICHLORVOS	0.9888	ppb	50	PASS	ND	TEFLUBENZURON	0.4437	ppb	25	PASS	ND			
DIMETHOATE	0.2585	ppb	10	PASS	ND	TETRACHLORVINPHOS	0.133	ppb	10	PASS	ND			
DIMETHOMORPH	0.1014	ppb	50	PASS	ND	TETRAMETHRIN	0.238	ppb	100	PASS	ND			
DINOTEFURAN	0.4004	ppb	50	PASS	ND	THIABENDAZOLE	0.8056	ppb	20	PASS	ND			
DIURON	0.7923	ppb	125	PASS	ND	THIACLOPRID	0.3999	ppb	10	PASS	ND			
DODEMORPH	0.2713	ppb	50	PASS	ND	THIAMETHOXAM	0.3232	ppb	10	PASS	ND			
ETHOPROPHOS	0.4738	ppb	10	PASS	ND	THIOPHANATE-METHYL	1.2413	ppb	50	PASS	ND			
ETOFENPROX	0.4114	ppb	50	PASS	ND	TRIFLOXYSTROBIN	0.1938	ppb	10	PASS	ND			
FENHEXAMID	0.945	ppb	125	PASS	ND	CHLORPHENAPYR	0.412	ppb	1500	PASS	ND			
FENYOXCARB	0.4316	ppb	20	PASS	ND	ENDOSULFAN SULFATE	0.4196	ppb	2500	PASS	ND			
FENPYROXIMATE	0.3098	ppb	20	PASS	ND	ENDOSULFAN-ALPHA	0.5956	ppb	2500	PASS	ND			
FENSULFOTHION	0.3684	ppb	10	PASS	ND	ENDOSULFAN-BETA	0.5555	ppb	2500	PASS	ND			
FENVALERATE	0.5416	ppb	100	PASS	ND	ETRIDIAZOLE	1.2221	ppb	150	PASS	ND			
FIPRONIL	0.2707	ppb	10	PASS	ND	FENTHION	0.3118	ppb	10	PASS	ND			
FLONICAMID	0.3493	ppb	25	PASS	ND	IPIRODIONE	0.2738	ppb	500	PASS	ND			
FLUDIOXONIL	0.2632	ppb	10	PASS	ND	KINOPRENE	1.7294	ppb	1250	PASS	ND			
FLUOPYRAM	0.3817	ppb	10	PASS	ND	PARATHION-METHYL	0.2709	ppb	50	PASS	ND			
HEXYTHIAZOX	0.1977	ppb	10	PASS	ND	QUINTOZENE	0.2693	ppb	20	PASS	ND			
KRESOXIM-METHYL	0.5115	ppb	150	PASS	ND	OTHER PESTICIDES	0.1	ppb	100	PASS	ND			
CYHALOTHRIN-LAMBDA	1.8598	ppb	250	PASS	ND									
METALAXYL	0.2756	ppb	10	PASS	ND									
METHIOCARB	2.3105	ppb	10	PASS	ND									
METHOMYL	0.379	ppb	25	PASS	ND									

Analyzed by: 2318, 1253, 7, 2080 Weight: 0.2025g Extraction date: 12/01/22 18:02:03 Extracted by: 2318, 1253  
 Analysis Method : SOP-060 (R5)  
 Analytical Batch : 0E004476PES  
 Instrument Used : Sciex 7500 Qtrap "Hades" - Pesticides  
 Running on : 12/01/22 18:02:10  
 Dilution : 20  
 Reagent : 102622.R09; 101822.R09; 101822.R08; 073022.R02  
 Consumables : 030822-A; 1335696; 00322250; F2300-19; 2203250509-D; 5079-525C6-525E  
 Pipette : N/A  
 Reviewed On : 12/06/22 11:25:28  
 Batch Date : 12/01/22 10:11:31  
 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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**Dane Oberhill**  
Lab Director

State License # 405R-00011  
405-00008  
ISO 17025 Accreditation # 4331.01

*Dane Oberhill*  
Signature

12/14/22

Signed On



# Certificate of Analysis

**PASSED**
**Moon Mother Hemp**

 2425 Canyon Blvd  
 Boulder, CO, 80302, US  
**Telephone:** 3039057097  
**Email:** edward@moonmotherhemp.com  
**License # :** 405R-00011

**Sample : DE21130021-001**
**Harvest/Lot ID: 11222**
**Batch# :** CO HEMP/7500 - 11222

**Sampled :** 11/26/22

**Ordered :** 11/26/22

**Sample Size Received :** 26.85 gram

**Total Amount :** 26.85 gram

**Completed :** 12/14/22 **Expires:** 12/14/23

**Sample Method :** SOP Client Method

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## Residual Solvents

**PASSED**

Solvents	LOD	Units	Action Level	Pass/Fail	Result
2-PROPANOL	1.5875	ppm	1000	PASS	ND
ACETONE	1.708	ppm	1000	PASS	ND
BENZENE	0.4749	ppm	2	PASS	ND
BUTANES	5.468	ppm	1000	PASS	ND
ETHANOL	2.701	ppm	1000000	PASS	ND
ETHYL ACETATE	2.7921	ppm	1000	PASS	ND
HEPTANE	3.2594	ppm	1000	PASS	ND
HEXANES	1.9279	ppm	60	PASS	ND
METHANOL	1.2786	ppm	600	PASS	ND
PENTANES	6.671	ppm	1000	PASS	ND
PROPANE	4.2142	ppm	1000	PASS	ND
TOLUENE	2.1088	ppm	180	PASS	ND
XYLENES	7.115	ppm	430	PASS	ND

<b>Analyzed by:</b> 1642, 1253, 2, 2080	<b>Weight:</b> 0.1569g	<b>Extraction date:</b> 12/02/22 18:35:52	<b>Extracted by:</b> 1642
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**Analysis Method :** SOP-032 (R18)  
**Analytical Batch :** DE004484SOL  
**Instrument Used :** GC 5890  
**Running on :** 12/02/22 18:33:55

**Reviewed On :** 12/04/22 12:55:40  
**Batch Date :** 12/02/22 09:29:50

**Dilution :** 1  
**Reagent :** 113022.R02; 112922.R02  
**Consumables :** 22413; 426331; 4570-125; 5079-525C6-525E  
**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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**Dane Oberhill**  
 Lab Director

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 Signature

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Sample : DE21130021-001  
Harvest/Lot ID: 11222

Batch#: CO HEMP/7500 - 11222  
Sampled : 11/26/22  
Ordered : 11/26/22

Sample Size Received : 26.85 gram  
Total Amount : 26.85 gram  
Completed : 12/14/22 Expires: 12/14/23  
Sample Method : SOP Client Method

Page 4 of 5

Microbial						Mycotoxins					
PASSED						PASSED					
Analyte	LOD	Units	Result	Pass / Fail	Action Level	Analyte	LOD	Units	Result	Pass / Fail	Action Level
TOTAL YEAST AND MOLD	100	cfu/g	ND	PASS	10000	AFLATOXINS	0.09	ppb	ND	PASS	20
SHIGA TOXIN PRODUCING ESCHERICHIA COLI STEC	1	CFU	ND	PASS	1	AFLATOXIN B1	1.327	ppb	ND	PASS	20
SALMONELLA SPECIES	1	CFU	ND	PASS	1	AFLATOXIN B2	0.09	ppb	ND	PASS	20
TOTAL AEROBIC	10	cfu/g	ND	PASS	10000	AFLATOXIN G1	0.18	ppb	ND	PASS	20
TOTAL COLIFORM	10	cfu/g	ND	PASS	100	AFLATOXIN G2	0.303	ppb	ND	PASS	20
						OCHRATOXIN A+	0.049	ppb	ND	PASS	20
<b>Analyzed by:</b> 2265, 5, 1473, 2080 <b>Weight:</b> 1.32g <b>Extraction date:</b> 12/01/22 19:12:29 <b>Extracted by:</b> 2265 <b>Analysis Method :</b> SOP-061 (R2); SOP-062 (R2); SOP-063 (R1) <b>Analytical Batch :</b> DE004482MIC <b>Reviewed On :</b> 12/06/22 10:26:03 <b>Instrument Used :</b> Microbial - Full Panel <b>Batch Date :</b> 12/01/22 12:49:33 <b>Running on :</b> 12/01/22 19:14:10 <b>Dilution :</b> N/A <b>Reagent :</b> 112822.R05; 112822.R02; 112322.R02; 112222.R02; 063022.R05; 081822.R04; 113022.R01; 111822.R01; 112122.R16; 111022.R01; 110422.01; 060222.11; 101122.01; 082322.01; 080422.01; 030322.06; 080922.01; 040822.02; 040820.15; 112822.R03; 120522.R18; 120222.R01 <b>Consumables :</b> 61842-214C6-214H; 40898-021C4-021A1; 211016-687-A; 211108-071-B; 12571-240CD-240; 1; NT10-1212; 2; 01859; 00106; 0000005302; CH_2149141; 0000004771; 3 <b>Pipette :</b> N/A						<b>Analyzed by:</b> 2318, 7, 8, 2080 <b>Weight:</b> 0.1587g <b>Extraction date:</b> 12/01/22 17:50:54 <b>Extracted by:</b> 2318,7 <b>Analysis Method :</b> SOP-060 (R5) <b>Analytical Batch :</b> DE004477MYC <b>Reviewed On :</b> 12/02/22 14:55:16 <b>Instrument Used :</b> Sciex 6500 Qtrap "Felicia" - Mycotoxins <b>Batch Date :</b> 12/01/22 10:12:29 <b>Running on :</b> 12/01/22 17:51:00 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	Units	Result	Pass / Fail	Action Level	Metal	LOD	Units	Result	Pass / Fail	Action Level
ARSENIC	0.002	ppm	ND	PASS	1.5						
CADMIUM	0.001	ppm	ND	PASS	0.5						
MERCURY	0.003	ppm	ND	PASS	1						
LEAD	0.01	ppm	ND	PASS	1						
<b>Analyzed by:</b> 666, 8, 2080 <b>Weight:</b> 0.2164g <b>Extraction date:</b> 12/04/22 13:38:48 <b>Extracted by:</b> 666 <b>Analysis Method :</b> SOP-050 (R5) <b>Analytical Batch :</b> DE004495HEA <b>Reviewed On :</b> 12/05/22 10:52:42 <b>Instrument Used :</b> Shimadzu 2030 ICP-MS "Alice" <b>Batch Date :</b> 12/04/22 09:59:16 <b>Running on :</b> 12/04/22 17:30:51 <b>Dilution :</b> 50 <b>Reagent :</b> 082721.13; 112922.R04; 112922.R03; 100422.02; 112022.R08; 112822.01 <b>Consumables :</b> 22413; 12557-230CE-230C; 220325059-D; 234422 <b>Pipette :</b> N/A 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 Client Method

Page 5 of 5

## COMMENTS

\* Cannabinoid DE21130021-001POT

**1** - Measurement Uncertainty for delta-9 THC (wt%, Flower) 95% interval : 0.07, Measurement Uncertainty for THCA (wt%, Flower) 95% interval : 0.05

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