



Certificate of Analysis

Sample: **DE31107024-001**
Batch#: CO HMEP/7500 - 10233
Seed to Sale# 1A4000B00010D25000003919
Batch Date: 10/13/23
Sample Size Received: 60 ml
Total Amount: 29.5 ml
Retail Product Size: 29.5 ml
Sample Density: 0.96 g/mL
Ordered: 11/04/23
Sampled: 11/07/23
Completed: 11/15/23

PASSED

Nov 15, 2023 | Moon Mother Hemp

License # 405R-00011

2425 Canyon Blvd
Boulder, CO, 80302, US



Pages 1 of 5

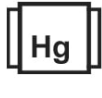
PRODUCT IMAGE



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

MISC.



Terpenes
NOT TESTED



Cannabinoid

PASSED



Total THC
0.2123%
Total THC/Container : 60.123 mg



Total CBD
4.2721%
Total CBD/Container : 1209.859 mg



Total Cannabinoids
4.6988%
Total Cannabinoids/Container : 1330.700 mg

	TOTAL 9IR	CBDV	CBDVA	CBG	CBD	CBDa	THCV	CBGA	CBN	EXO-THC	CBDO	D9-THC	D8-THC	CBL	THCVA	CBC	D10-THC	CBNA	THCA	CBCA	CBLA	THC-O-ACE TATE
%	ND	ND	ND	ND	4.2721	ND	ND	ND	<0.0133	0.0582	ND	0.1541	ND	ND	ND	0.1655	ND	ND	ND	ND	ND	ND
mg/ml	ND	ND	ND	ND	41.012	ND	ND	ND	<0.128	0.559	ND	1.479	ND	ND	ND	1.589	ND	ND	ND	ND	ND	ND
LOD	0.0100	0.0017	0.0014	0.0009	0.0021	0.0031	0.0006	0.0016	0.0044	0.0008	0.0012	0.0025	0.0016	0.0034	0.0029	0.0014	0.0059	0.0047	0.0026	0.0011	0.0022	0.0021
%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%

Analyzed by:
2721, 3200, 8, 2813, 2950, 2, 2080

Weight:
1.0219g

Extraction date:
11/08/23 14:47:37

Extracted by:
3200

Analysis Method : SOP.T.40.039.CO

Analytical Batch : DE006703POT

Instrument Used : Agilent 1100 "Liger"

Analyzed Date : 11/09/23 10:55:16

Reviewed On : 11/15/23 08:07:10

Batch Date : 11/08/23 10:05:35

Dilution : 40

Reagent : 110823.R05; 110823.R04; 100923.R11; 110823.R10

Consumables : 2210521482; 2014919; 00336569; 0000179471; 303122060; 121621CH01; 41141-130C4-130D; 61572-107C6-107H

Pipette : POT- 20E73244; POT- 20E74976; POT- 20K63477; P1000 - 20B29164-A; P200- 6507768

Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with DAD detection (HPLC-UV). Method SOP.T.90.010.CO for reporting. Lower limit of linearity for all cannabinoids is 1 mg/L

Label Claim - PASSED

Analyte	LOD	Units	Pass/Fail	Result	Analyte	LOD	Units	Pass/Fail	Result
TOTAL CBG	0.0010	mg	TESTED	<0.0030	TOTAL CBN	0.0010	mg	TESTED	3.2745

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Stephen Goldman

Lab Director

State License # 405R-00011

405-00008

ISO 17025 Accreditation # 4331.01



Signature

11/15/23



Certificate of Analysis

PASSED

Moon Mother Hemp

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

Sample : DE31107024-001

Batch#: CO HMEP/7500 - 10233
Sample Size Received : 60 ml
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Sampled : 11/07/23
Completed : 11/15/23 Expires: 11/15/24
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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
ABAMECTIN	0.0139	ppb	100	PASS	ND	HEXYTHIAZOX	0.1977	ppb	10	PASS	ND
AZOXYSTROBIN	0.1122	ppb	20	PASS	ND	KRESOXIM-METHYL	0.5115	ppb	150	PASS	ND
BIFENAZATE	0.3285	ppb	20	PASS	ND	METHIOCARB	2.3105	ppb	10	PASS	ND
BIFENTHRIN	0.3469	ppb	1000	PASS	ND	METHOMYL	0.3790	ppb	25	PASS	ND
BOSCALID	0.3057	ppb	20	PASS	ND	METHOPRENE	0.4892	ppb	2000	PASS	ND
CARBARYL	0.3165	ppb	50	PASS	ND	MEVINPHOS	0.0432	ppb	25	PASS	ND
CHLORPYRIFOS	0.2889	ppb	40	PASS	ND	MGK-264	0.1438	ppb	50	PASS	ND
CLOTHIANIDIN	0.5370	ppb	50	PASS	ND	NALED	0.4305	ppb	100	PASS	ND
CYHALOTHRIN-LAMBDA	1.8598	ppb	250	PASS	ND	NOVALURON	0.2164	ppb	25	PASS	ND
DICHLORVOS	0.9888	ppb	100	PASS	ND	PHOSMET	0.2483	ppb	20	PASS	ND
DIMETHOATE	0.2585	ppb	20	PASS	ND	OXAMYL	0.3760	ppb	1500	PASS	ND
DINOTEFURAN	0.4004	ppb	100	PASS	ND	PIPERONYL BUTOXIDE	0.3284	ppb	1250	PASS	ND
DIURON	0.7923	ppb	125	PASS	ND	PACLOBUTAZOL	1.4227	ppb	10	PASS	ND
ETOXAZOLE	0.1839	ppb	20	PASS	ND	PIRIMICARB	0.3458	ppb	10	PASS	ND
IMAZALIL	0.4019	ppb	50	PASS	ND	PHENOTHRIN	0.3060	ppb	50	PASS	ND
IMIDACLOPRID	0.2650	ppb	20	PASS	ND	PRALLETHRIN	0.6623	ppb	50	PASS	ND
MALATHION	0.3036	ppb	20	PASS	ND	PROPOXUR	0.7835	ppb	10	PASS	ND
METALAXYL	0.2756	ppb	20	PASS	ND	PRYACLOSTROBIN	0.2379	ppb	10	PASS	ND
MYCLOBUTANIL	0.4417	ppb	20	PASS	ND	PYRETHRINS	0.1810	ppb	50	PASS	ND
PERMETHRINS	0.2109	ppb	500	PASS	ND	PYRIDABEN	0.2980	ppb	20	PASS	ND
PROPICONAZOLE	0.5658	ppb	100	PASS	ND	RESMETHRIN	0.2008	ppb	50	PASS	ND
PYRIPROXYFEN	0.8551	ppb	10	PASS	ND	SPINETORAM	0.1177	ppb	10	PASS	ND
SPINOSADS	0.0545	ppb	100	PASS	ND	SPIRODICLOFEN	0.1830	ppb	250	PASS	ND
SPIROMESIFEN	0.2912	ppb	3000	PASS	ND	SPIROXAMINE	0.3745	ppb	100	PASS	ND
SPIROTETRAMAT	0.4266	ppb	20	PASS	ND	TEBUFENOZIDE	0.2154	ppb	10	PASS	ND
TEBUCONAZOLE	0.3302	ppb	50	PASS	ND	TEFLUBENZURON	0.4437	ppb	25	PASS	ND
THIABENDAZOLE	0.8056	ppb	20	PASS	ND	TETRACHLORVINPHOS	0.1330	ppb	10	PASS	ND
THIAMETHOXAM	0.3232	ppb	20	PASS	ND	TETRAMETHRIN	0.2380	ppb	100	PASS	ND
ACEPHATE	0.2755	ppb	50	PASS	ND	THIACLOPRID	0.3999	ppb	10	PASS	ND
ACEQUINOCLYL	0.2707	ppb	30	PASS	ND	THIOPHONATE-METHYL	1.2413	ppb	50	PASS	ND
ACETAMIPRID	0.2250	ppb	50	PASS	ND	TRIFLOXYSTROBIN	0.1938	ppb	10	PASS	ND
ALDICARB	0.4206	ppb	500	PASS	ND	CHLORPHENAPYR	0.4120	ppb	1500	PASS	ND
ALLETHRIN	0.3601	ppb	100	PASS	ND	ENDOSULFAN SULFATE	0.4196	ppb	2500	PASS	ND
ATRAZINE	1.0640	ppb	25	PASS	ND	ENDOSULFAN-ALPHA	0.5956	ppb	2500	PASS	ND
AZADIRACHTIN	1.1979	ppb	500	PASS	ND	ENDOSULFAN-BETA	0.5555	ppb	2500	PASS	ND
BENZOVINDIFLUPYR	0.3651	ppb	10	PASS	ND	ETRIDIAZOLE	1.2221	ppb	150	PASS	ND
BUPROFEZIN	0.3000	ppb	20	PASS	ND	FENTHION	0.3118	ppb	10	PASS	ND
CARBOFURAN	0.3317	ppb	10	PASS	ND	IPRODIONE	0.2738	ppb	500	PASS	ND
CHLORANTRANILIPROLE	0.4629	ppb	20	PASS	ND	KINOPRENE	1.7294	ppb	1250	PASS	ND
CLOFENTHIZINE	0.3505	ppb	10	PASS	ND	PARATHION-METHYL	0.2709	ppb	50	PASS	ND
COUMAPHOS	0.2529	ppb	10	PASS	ND	QUINTOZENE	0.2693	ppb	20	PASS	ND
CYANTRANILIPROLE	0.5411	ppb	10	PASS	ND	OTHER PESTICIDES	0.1000	ppb	100	PASS	ND
CYFLUTHRIN	0.6072	ppb	200	PASS	ND	Weight:	0.2073g	Extraction date:	11/08/23 15:05:10	Extracted by:	2318
CYPERMETHRIN	0.3065	ppb	300	PASS	ND	Analysis Method :	SOP-060 (R5)	Revised On :	11/10/23 15:28:16		
CYPRODINIL	0.4377	ppb	10	PASS	ND	Analytical Batch :	DE006705PES	Batch Date :	11/08/23 13:26:32		
DAMINOZIDE	4.9907	ppb	100	PASS	ND	Instrument Used :	Sciex 7500 Qtrap "Hades" - Pesticides				
DELTAMETHRIN	0.8431	ppb	500	PASS	ND	Analyzed Date :	N/A				
DIAZINON	0.2055	ppb	20	PASS	ND	Dilution :	20				
DIMETHOMORPH	0.1014	ppb	50	PASS	ND	Reagent :	110323.R13; 110323.R12; 110623.R17; 110323.R11; 092523.R20; 110623.R16; 110323.R10; 092523.R17; 102023.R08; 103023.R17; 103023.R18; 092622.06; 102923.R08; 102023.R06; 110323.R07; 100223.R16; 091123.R17				
DODEMORPH	0.2713	ppb	50	PASS	ND	Consumables :	2210521482; 2014919; 00339105-4; 0000179471; 12536-22CD-223; 61572-107C6-107H				
ETHOPROPHOS	0.4738	ppb	10	PASS	ND	Pipette :	P200-IL404270G; P10- MU13938; P1000- HM22477; PES- 20E74965				
FIPRONIL	0.2707	ppb	10	PASS	ND	Pesticide screen is performed using LC-MS which can screen down to below single digit ppb concentrations for regulated Pesticides via SOP-060 (R5).					
ETOFENPROX	0.4114	ppb	50	PASS	ND						
FENHEXAMID	0.9450	ppb	125	PASS	ND						
FENYOXCARB	0.4316	ppb	20	PASS	ND						
FENPYROXIMATE	0.3098	ppb	20	PASS	ND						
FENSULFOTHION	0.3684	ppb	10	PASS	ND						
FENVALERATE	0.5416	ppb	100	PASS	ND						
FLONICAMID	0.3493	ppb	25	PASS	ND						
FLUDIOXONIL	0.2632	ppb	10	PASS	ND						
FLUOPYRAM	0.3817	ppb	10	PASS	ND						

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Stephen Goldman
Lab Director
State License # 405R-00011
405-00008
ISO 17025 Accreditation # 4331.01



Signature
11/15/23



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License # : 405R-00011

Sample : DE31107024-001

Batch# : CO HMEP/7500 - 10233
Sampled : 11/07/23
Ordered : 11/07/23
Sample Size Received : 60 ml
Total Amount : 29.5 ml
Completed : 11/15/23 Expires: 11/15/24
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
BUTANES	5.4680	ppm	1000	PASS	ND
METHANOL	1.2786	ppm	600	PASS	ND
PENTANES	6.6710	ppm	1000	PASS	ND
ETHANOL	2.7010	ppm	1000000	PASS	ND
ACETONE	1.7080	ppm	1000	PASS	ND
2-PROPANOL	1.5875	ppm	1000	PASS	ND
HEXANES	1.9279	ppm	60	PASS	ND
ETHYL ACETATE	2.7921	ppm	1000	PASS	ND
BENZENE	0.4749	ppm	2	PASS	ND
HEPTANE	3.2594	ppm	1000	PASS	ND
TOLUENE	2.1088	ppm	180	PASS	ND
XYLENES	7.1150	ppm	430	PASS	ND

Analyzed by: 666, 2494, 2080	Weight: 0.1636g	Extraction date: 11/08/23 12:12:20	Extracted by: 2494
------------------------------	-----------------	------------------------------------	--------------------

Analysis Method : SOP.T.40.049.CO	Reviewed On : 11/12/23 10:45:49
Analytical Batch : DE006697SOL	Batch Date : 11/07/23 16:21:06
Instrument Used : GC 5890	
Analyzed Date : 11/08/23 13:20:38	

Dilution : 1
 Reagent : 101623.R04; 103023.R01
 Consumables : 23133; R2017.100; G201.100; 61892-307C6-307E
 Pipette : P10- MU13938; P1000- 22C52450

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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PASSED

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Email: edward@moonmotherhemp.com
License # : 405R-00011

Sample : DE31107024-001

Batch# : CO HMEP/7500 - 10233

Sampled : 11/07/23

Ordered : 11/07/23



Sample Size Received : 60 ml

Total Amount : 29.5 ml

Completed : 11/15/23 Expires: 11/15/24

Sample Method : SOP Client Method

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 Microbial PASSED						 Mycotoxins 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	0.0539	ppb	ND	PASS	20
SHIGA TOXIN PRODUCING ESCHERICHIA COLI STEC SALMONELLA SPECIES			Not Present	PASS		AFLATOXIN B1	0.1530	ppb	ND	PASS	20
TOTAL AEROBIC	10	cfu/g	ND	PASS	10000	AFLATOXIN B2	0.0823	ppb	ND	PASS	20
TOTAL COLIFORM	10	cfu/g	ND	PASS	100	AFLATOXIN G1	0.0539	ppb	ND	PASS	20
						AFLATOXIN G2	0.2270	ppb	ND	PASS	20
						OCHRATOXIN A+	0.0117	ppb	ND	PASS	20
Analyzed by: 3215, 1473, 2, 2080	Weight: 3.12g	Extraction date: 11/08/23 14:14:28	Extracted by: 3215			Analyzed by: 2318, 2, 2080	Weight: 0.1531g	Extraction date: 11/08/23 15:11:17	Extracted by: 2318		
Analysis Method : SOP.T.40.057.CO; SOP.T.40.209.CO						Analysis Method : SOP-060 (R5)					
Analytical Batch : DE006702MIC						Analytical Batch : DE006704MYC					
Instrument Used : Microbial - Full Panel						Instrument Used : Sciex 6500 Qtrap "Felicia" - Mycotoxins					
Analyzed Date : 11/08/23 14:15:16						Analyzed Date : N/A					
Reviewed On : 11/11/23 13:01:00						Reviewed On : 11/09/23 12:49:47					
Batch Date : 11/08/23 08:43:22						Batch Date : 11/08/23 13:05:15					
Dilution : N/A						Dilution : 25					
Reagent : 110723.R01; 110123.R11; 102823.R04; 100523.R04; 092923.R02; 102823.R03; 101023.R14; 101023.R12; 093023.01; 072523.02; 101122.02; 100323.01; 020723.01; 030123.01; 041323.37; 110323.R09; 110823.R13; 102823.R06; 102823.R07; 110923.R10; 092223.32						Reagent : 102023.R08; 091323.R10; 110523.R01; 102023.R03; 110623.R20; 110623.R19; 092622.06; 110623.R18; 102923.R08; 102023.R09; 092523.R25; 102023.R07					
Consumables : 61853-217C6-217D; 411171-135C4-135AI; 211016-687-A; 12536-223CD-223; 1; DR 20230612_CatNo.1193A96; 2; 01859; 00112; 3; CH_2242419; 4; 40960-040C4-040AL; 5; 41141-130C4-130D; CJ209G2; P1000160; 6; 7; 8; MSB1001; RB-1050; 9; 10; 11						Consumables : 2210521482; 2014919; 00339105-4; 114CB-114E; 0000179471; 61572-107C6-107H					
Pipette : M - O48453J; M - L47149J; M - 20F92851; M - MV21601; M - MU03680; M - M32141C; M - 20C40454; M - 22G22702; M - 6537603; M - MU06201; M - N65633K; M - K94440L; M - 20E73249; M - G19154L; M - P67199J; M - Q29305K; M - Q36416J; M - J46789J; M - J55715J; M - O52710K; M - N1563K; M - O34081K						Pipette : P200- I1404270G; P1000- HM22477; PES- 20A00461					
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
ARSENIC	0.0048	ppm	ND	PASS	1.5
CADMIUM	0.0016	ppm	ND	PASS	0.5
MERCURY	0.0008	ppm	ND	PASS	1
LEAD	0.0039	ppm	ND	PASS	1
Analyzed by: 2992, 2494, 666, 2, 2080	Weight: 0.194g	Extraction date: 11/08/23 11:30:38	Extracted by: 2992		
Analysis Method : SOP.T.40.081.CO					
Analytical Batch : DE006684HEA					
Instrument Used : Shimadzu 2030 ICP-MS "RUMPEL"					
Analyzed Date : 11/07/23 14:24:56					
Reviewed On : 11/09/23 14:27:18					
Batch Date : 11/06/23 07:02:05					
Dilution : 50					
Reagent : 103123.R06; 041723.04; 110123.R02; 110123.R01; 052923.01; 091823.04; 110123.R15; 110623.01					
Consumables : 23133; 11922032; 121621CH01; 234422					
Pipette : P10- MU13938; HEA-19H16763; P100- 22G19765					

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.T.40.081.CO. Sample preparation for Heavy Metals Analysis via SOP.T.30.081.CO.

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Signature

11/15/23



879 Federal Blvd
Denver, CO, 80204, US
(303) 427-2379

Kaycha Labs

Peppermint 1000mg
N/A
Matrix : Infused
Type: Tincture



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COMMENTS

* Cannabinoid DE31107024-001POT

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

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