



Certificate of Analysis

Sample: DE30112031-001

Harvest/Lot ID: 12302

Batch#: CO HEMP - 12302

Seed to Sale# 1A4000B00010D25000002455

Batch Date: 01/06/23

Sample Size Received: 14.75 gram

Total Amount: N/A

Retail Product Size: 14.75 ml

Ordered : 01/10/23

Sampled : 01/10/23

Completed: 01/20/23

Sampling Method: N/A

PASSED

Pages 1 of 4

Jan 20, 2023 | Moon Mother Hemp

License # 405R-00011

2425 Canyon Blvd
Boulder, CO, 80302, US



PRODUCT IMAGE	SAFETY RESULTS								MISC.	
	 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

	Cannabinoid	PASSED
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	Total THC 0.0403% Total THC/Container : 4.672 mg		Total CBD 0.9491% Total CBD/Container : 110.034 mg		Total Cannabinoids 1.0128% Total Cannabinoids/Container : 117.419 mg
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	TOTAL 9IR (S)-HHC	CBDV	CBDVA	CBG	CBD	CBDa	THCV	CBGA	CBN	EXO-THC	CBDQ	D9-THC	D8-THC	CBL	THCVA	CBC	D10-THC	CBNA	THCA	CBCA	CBLA	THC-D-ACE TATE
%	ND	ND	ND	ND	0.9491	ND	ND	ND	ND	0.009	ND	0.0403	ND	ND	ND	0.0144	ND	ND	<0.0078	ND	ND	ND
mg/g	ND	ND	ND	ND	9.491	ND	ND	ND	ND	0.09	ND	0.403	ND	ND	ND	0.144	ND	ND	<0.078	ND	ND	ND
LOD	0.01	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
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%

Analized by: 1642, 2319, 7, 8, 1421	Weight: 0.819g	Extraction date: N/A	Extracted by: 2319,1642
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Analysis Method : SOP-020 (R15) Analytical Batch : DE004771POT Instrument Used : Agilent 1100 "Liger" Running on : 01/16/23 11:42:57	Reviewed On : 01/19/23 11:48:50 Batch Date : 01/13/23 20:01:50
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Dilution : 41 Reagent : 102622.R03; 011523.R05; 092122.R09; 011323.R11 Consumables : TSINOC040FG; HWK-TP3ML; 1346086; 00329334-6; 0000164728; 309011271; 12571-240CD-240; 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 - PASSED

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

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Dane Oberhill

Lab Director

State License # 405R-00011

405-00008

ISO 17025 Accreditation # 4331.01



Signature

01/20/23

Signed On



Certificate of Analysis

PASSED

Moon Mother Hemp

2425 Canyon Blvd
Boulder, CO, 80302, US
Telephone: 3039057077
Email: edward@moonmotherhemp.com
License #: 405R-00011

Sample : DE30112031-001
Harvest/Lot ID: 12302

Batch#: CO HEMP - 12302 Sample Size Received : 14.75 gram
Total Amount : N/A
Sampled : 01/10/23 Completed : 01/20/23 Expires: 01/20/24
Ordered : 01/10/23 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
AVERMECTINS	0.0139	ppb	100	PASS	ND	METHOPRENE	0.4892	ppb	2000	PASS	ND
AZOXYSTROBIN	0.1122	ppb	20	PASS	ND	MEVINPHOS	0.0432	ppb	25	PASS	ND
BIFENAZATE	0.3285	ppb	20	PASS	ND	MGK-264	0.1438	ppb	50	PASS	ND
ETOXAZOLE	0.1839	ppb	20	PASS	ND	NALED	0.4305	ppb	100	PASS	ND
IMAZALIL	0.4019	ppb	50	PASS	ND	NOVALURON	0.2164	ppb	25	PASS	ND
IMIDACLOPRID	0.265	ppb	20	PASS	ND	OXAMYL	0.376	ppb	1500	PASS	ND
MALATHION	0.4417	ppb	20	PASS	ND	PACLOBUTRAZOL	1.4227	ppb	10	PASS	ND
MYCLOBUTANIL	0.3036	ppb	20	PASS	ND	PHENOTHRIN	0.306	ppb	50	PASS	ND
PERMETHRINS	0.2109	ppb	500	PASS	ND	PHOSMET	0.2483	ppb	20	PASS	ND
SPINOSADS	0.0545	ppb	100	PASS	ND	PIPERONYL BUTOXIDE	0.3284	ppb	1250	PASS	ND
SPIROMESIFEN	0.2912	ppb	3000	PASS	ND	PIRIMICARB	0.3458	ppb	10	PASS	ND
SPIROTETRAMAT	0.4266	ppb	20	PASS	ND	PRALLETHRIN	0.6623	ppb	50	PASS	ND
TEBUCONAZOLE	0.3302	ppb	50	PASS	ND	PROPICONAZOLE	0.5658	ppb	10	PASS	ND
ACEPHATE	0.2755	ppb	50	PASS	ND	PROPOXUR	0.7835	ppb	10	PASS	ND
ACEQUINOCYL	0.2707	ppb	30	PASS	ND	PRYACLOSTROBIN	0.2379	ppb	10	PASS	ND
ACETAMIPRID	0.225	ppb	50	PASS	ND	PYRETHRINS	0.181	ppb	50	PASS	ND
ALDICARB	0.4206	ppb	500	PASS	ND	PYRIDABEN	0.298	ppb	20	PASS	ND
ALLETHRIN	0.3601	ppb	100	PASS	ND	PYRIPROXYFEN	0.8551	ppb	10	PASS	ND
ATRAZINE	1.064	ppb	25	PASS	ND	RESMETHRIN	0.2008	ppb	50	PASS	ND
AZADIRACTHIN	1.1979	ppb	500	PASS	ND	SPINETORAM	0.1177	ppb	10	PASS	ND
BENZOVINDIFLUPYR	0.3651	ppb	10	PASS	ND	SPIRODICLOFEN	0.183	ppb	250	PASS	ND
BIFENTHRIN	0.3469	ppb	1000	PASS	ND	SPIROXAMINE	0.3745	ppb	100	PASS	ND
BOSCALID	0.3057	ppb	10	PASS	ND	TEBUFENOSIDE	0.2154	ppb	10	PASS	ND
BUPROFEZIN	0.3	ppb	20	PASS	ND	TEFLUBENZURON	0.4437	ppb	25	PASS	ND
CARBARYL	0.3165	ppb	25	PASS	ND	TETRACHLORVINPHOS	0.133	ppb	10	PASS	ND
CARBOFURAN	0.3317	ppb	10	PASS	ND	TETRAMETHRIN	0.238	ppb	100	PASS	ND
CHLORANTRANILPROLE	0.4629	ppb	20	PASS	ND	THIABENDAZOLE	0.8056	ppb	20	PASS	ND
CHLORPYRIFOS	0.2889	ppb	500	PASS	ND	THIACLOPRID	0.3999	ppb	10	PASS	ND
CLOFENTEZINE	0.3505	ppb	10	PASS	ND	THIAMETHOXAM	0.3232	ppb	10	PASS	ND
CLOTHIANIDIN	0.537	ppb	25	PASS	ND	THIOPHANATE-METHYL	1.2413	ppb	50	PASS	ND
COUMAPHOS	0.2529	ppb	10	PASS	ND	TRIFLOXYSTROBIN	0.1938	ppb	10	PASS	ND
CYANTRANILPROLE	0.5411	ppb	10	PASS	ND	CHLORPHENAPYR	0.412	ppb	1500	PASS	ND
CYFLUTHRIN	0.6072	ppb	200	PASS	ND	ENDOSULFAN SULFATE	0.4196	ppb	2500	PASS	ND
CYPERMETHRIN	0.3065	ppb	300	PASS	ND	ENDOSULFAN-ALPHA	0.5956	ppb	2500	PASS	ND
CYPRODINIL	0.4377	ppb	10	PASS	ND	ENDOSULFAN-BETA	0.5555	ppb	2500	PASS	ND
DAMINOZIDE	4.9907	ppb	100	PASS	ND	ETRIDIAZOLE	1.2221	ppb	150	PASS	ND
DELTAMETHRIN	0.8431	ppb	500	PASS	ND	FENTHION	0.3118	ppb	10	PASS	ND
DIAZINON	0.2055	ppb	20	PASS	ND	IPRODIONE	0.2738	ppb	500	PASS	ND
DICHLORVOS	0.9888	ppb	50	PASS	ND	KINOPRENE	1.7294	ppb	1250	PASS	ND
DIMETHOATE	0.2585	ppb	10	PASS	ND	PARATHION-METHYL	0.2709	ppb	50	PASS	ND
DIMETHOMORPH	0.1014	ppb	50	PASS	ND	QUINTOZENE	0.2693	ppb	20	PASS	ND
DINOTEFURAN	0.4004	ppb	50	PASS	ND	OTHER PESTICIDES	0.1	ppb	100	PASS	ND
DIURON	0.7923	ppb	125	PASS	ND						
DODEMORPH	0.2713	ppb	50	PASS	ND						
ETHOPROPHOS	0.4738	ppb	10	PASS	ND						
ETOFENPROX	0.4114	ppb	50	PASS	ND						
FENHEXAMID	0.945	ppb	125	PASS	ND						
FENPYXOCARB	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						
FIPRONIL	0.2707	ppb	10	PASS	ND						
FLONICAMID	0.3493	ppb	25	PASS	ND						
FLUDIOXONIL	0.2632	ppb	10	PASS	ND						
FLUOPYRAM	0.3817	ppb	10	PASS	ND						
HEXYTHIAZOX	0.1977	ppb	10	PASS	ND						
KRESOXIM-METHYL	0.5115	ppb	150	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: 7, 2319, 2, 1421
 Analysis Method : SOP-060 (R5)
 Analytical Batch : DE00476PES
 Instrument Used : Sciex 7500 Qtrap "Hades" - Pesticides
 Running on : 01/16/23 11:44:47
 Dilution : 20
 Reagent : N/A
 Consumables : N/A
 Pipette : N/A

Weight: 0.2069g Extraction date: 01/15/23 16:30:11 Extracted by: 2318

Reviewed On : 01/19/23 11:05:18
 Batch Date : 01/15/23 08:51:59

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



Signature

01/20/23

Signed On



Certificate of Analysis

PASSED

Moon Mother Hemp

2425 Canyon Blvd
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Telephone: 3039057097
Email: edward@moonmotherhemp.com
License # : 405R-00011

Sample : DE30112031-001
Harvest/Lot ID: 12302

Batch# : CO HEMP - 12302 Sample Size Received : 14.75 gram
Sampled : 01/10/23 Total Amount : N/A
Ordered : 01/10/23 Completed : 01/20/23 Expires: 01/20/24
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

Analyzed by: 7, 1642, 1421	Weight: 0.1551g	Extraction date: 01/18/23 10:22:49	Extracted by: 666
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Analysis Method : SOP-032 (R18) Analytical Batch : DE004782SOL Instrument Used : GC 5890 Running on : 01/17/23 18:44:35	Reviewed On : 01/18/23 15:36:06 Batch Date : 01/17/23 10:37:21
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Dilution : 1
 Reagent : 010923.R18; 122622.R12
 Consumables : 21233; C4020-20NL; 33120320183106; 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
State License # 405R-00011
405-00008
ISO 17025 Accreditation # 4331.01



Signature

01/20/23
Signed On



Certificate of Analysis

PASSED

Moon Mother Hemp

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

Sample : DE30112031-001
Harvest/Lot ID: 12302

Batch#: CO HEMP - 12302 Sample Size Received : 14.75 gram
Sampled : 01/10/23 Total Amount : N/A
Ordered : 01/10/23 Completed : 01/20/23 Expires: 01/20/24
Sample Method : SOP Client Method

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	Microbial	PASSED		Mycotoxins	PASSED
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Analyte	LOD	Units	Result	Pass / Fail	Action Level
TOTAL YEAST AND MOLD	100	cfu/g	ND	PASS	10000
SHIGA TOXIN PRODUCING ESCHERICHIA COLI STEC	1	CFU	ND	PASS	1
SALMONELLA SPECIES	1	CFU	ND	PASS	1
TOTAL AEROBIC	10	cfu/g	ND	PASS	10000
TOTAL COLIFORM	10	cfu/g	ND	PASS	100

Analyzed by: 5, 2792, 2, 1421	Weight: 2.43g	Extraction date: 01/17/23 19:06:46	Extracted by: 1473
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Analysis Method : SOP-061 (R2); SOP-062 (R2); SOP-063 (R1)
Analytical Batch : DE004770MIC Reviewed On : 01/20/23 16:08:36
Instrument Used : Microbial - Full Panel Batch Date : 01/13/23 19:34:05
Running on : 01/17/23 18:33:23

Dilution : N/A
Reagent : 011123.R03; 011223.R06; 121922.R12; 112222.R02; 120822.R05; 081822.R04; 011423.R01; 011423.R02; 011123.10; 102022.03; 101122.01; 120922.01; 080422.01; 030322.06; 080922.01; 120622.58; 120622.59; 011823.R16; 011423.R03; 011823.R19
Consumables : 61842-214C6-214H; 40898-021C4-021A; 211110-687-A; 12600-249CC-249; 2; NT10-1212; 3; 01859; 00106; 4; CH_2149141; 0000004771; 5; 6; 41141-130C4-130D; 7; 8; 9; 10
Pipette : N/A

Analyte	LOD	Units	Result	Pass / Fail	Action Level
AFLATOXINS	0.09	ppb	ND	PASS	20
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

Analyzed by: 7, 1642, 1421	Weight: 0.1509g	Extraction date: 01/15/23 16:33:00	Extracted by: 2318
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Analysis Method : SOP-060 (R5)
Analytical Batch : DE004777MYC Reviewed On : 01/17/23 19:43:59
Instrument Used : Sciex 6500 Qtrap "Felicia" - Mycotoxins Batch Date : 01/15/23 08:53:41
Running on : 01/17/23 11:10:21

Dilution : 25
Reagent : 010423.R02; 011523.R02; 010823.R07; 011523.R01; 010823.R10
Consumables : 080622-A; TSINOC040FG; 1346086; 114CB--114E; 309011271; 5079-525C6-525E
Pipette : N/A

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
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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

Analyzed by: 7, 666, 1421	Weight: 0.2133g	Extraction date: 01/16/23 17:31:10	Extracted by: 666
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Analysis Method : SOP-050 (R5)
Analytical Batch : DE004769HEA Reviewed On : 01/18/23 11:59:40
Instrument Used : Shimadzu 2030 ICP-MS "Alice" Batch Date : 01/13/23 14:29:18
Running on : 01/17/23 11:05:48

Dilution : 50
Reagent : 082721.13; 011023.R11; 011023.R10; 100422.02; 011023.R09; 010923.01
Consumables : 21233; 12557-230CE-230C; 220325059-D; 234422
Pipette : 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).