

Prepared for:

Moon Mother Hemp Co.

2425 Canyon Blvd. Unit D
Boulder, CO USA 80302

LED-O-20863

Batch ID or Lot Number: BH-7777-09	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 1 of 6
Reported: 13Jun2024	Started: 11Jun2024	Received: 11Jun2024	


Residual Solvents - Colorado Compliance

Test ID: T000283750


Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	67 - 1336	ND	
Butanes (Isobutane, n-Butane)	139 - 2777	ND	
Methanol	60 - 1208	ND	
Pentane	75 - 1501	ND	
Ethanol	95 - 1893	ND	
Acetone	97 - 1944	ND	
Isopropyl Alcohol	104 - 2073	ND	
Hexane	6 - 112	ND	
Ethyl Acetate	100 - 2000	ND	
Benzene	0.2 - 4.0	ND	
Heptanes	91 - 1811	ND	
Toluene	18 - 369	ND	
Xylenes (m,p,o-Xylenes)	133 - 2667	ND	

Final Approval


Sam Smith
13Jun2024
09:53:00 AM MDT

PREPARED BY / DATE


Karen Winternheimer
13Jun2024
09:55:00 AM MDT

APPROVED BY / DATE

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Mycotoxins - Colorado Compliance

Test ID: T000283751
Methods: TM18 (UHPLC-QQQ)
LCMS/MS: Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	1.32 - 130.46	ND	N/A
Aflatoxin B1	1.45 - 34.21	ND	
Aflatoxin B2	0.96 - 34.05	ND	
Aflatoxin G1	1.25 - 34.18	ND	
Aflatoxin G2	1.25 - 33.82	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval


PREPARED BY / DATE
Sam Smith
13Jun2024
10:10:00 AM MDT


APPROVED BY / DATE
Karen Winternheimer
13Jun2024
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Prepared for:
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Cannabinoids - Colorado Compliance

Test ID: T000283746
Methods: TM14 (HPLC-DAD): Potency – Standard

Cannabinoid Analysis	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.042	0.137	2.630	26.30	
Cannabichromenic Acid (CBCA)	0.039	0.126	ND	ND	
Cannabidiol (CBD)	0.162	0.372	61.478	614.78	
Cannabidiolic Acid (CBDA)	0.166	0.382	1.422	14.22	
Cannabidivarin (CBDV)	0.038	0.088	0.310	3.10	
Cannabidivarinic Acid (CBDVA)	0.069	0.159	ND	ND	
Cannabigerol (CBG)	0.024	0.078	1.385	13.85	
Cannabigerolic Acid (CBGA)	0.100	0.326	ND	ND	
Cannabinol (CBN)	0.031	0.102	0.112	1.12	
Cannabinolic Acid (CBNA)	0.068	0.223	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.119	0.389	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.108	0.353	2.384	23.84	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.096	0.313	ND	ND	
Tetrahydrocannabivarin (THCV)	0.022	0.071	0.170	1.70	
Tetrahydrocannabivarinic Acid (THCVA)	0.085	0.276	ND	ND	
Total Cannabinoids			69.891	698.91	
Total Potential THC			2.384	23.84	
Total Potential CBD			62.725	627.25	

Final Approval


Sam Smith
13Jun2024
03:33:00 PM MDT
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Karen Winternheimer
13Jun2024
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Pesticides

Test ID: T000283747

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	304 - 2709	ND		Malathion	292 - 2701	ND
Acephate	42 - 2773	ND		Metalaxyl	40 - 2735	ND
Acetamiprid	40 - 2733	ND		Methiocarb	40 - 2838	ND
Azoxystrobin	41 - 2736	ND		Methomyl	44 - 2762	ND
Bifenazate	37 - 2702	ND		MGK 264 1	166 - 1642	ND
Boscalid	30 - 2789	ND		MGK 264 2	105 - 1079	ND
Carbaryl	35 - 2742	ND		Myclobutanil	38 - 2769	ND
Carbofuran	44 - 2699	ND		Naled	39 - 2658	ND
Chlorantraniliprole	43 - 2637	ND		Oxamyl	42 - 2777	ND
Chlorpyrifos	51 - 2793	ND		Paclobutrazol	43 - 2688	ND
Clofentezine	272 - 2725	ND		Permethrin	269 - 2763	ND
Diazinon	288 - 2748	ND		Phosmet	38 - 2607	ND
Dichlorvos	293 - 2789	ND		Prophos	282 - 2800	ND
Dimethoate	43 - 2741	ND		Propoxur	40 - 2707	ND
E-Fenpyroximate	280 - 2804	ND		Pyridaben	274 - 2792	ND
Etofenprox	41 - 2796	ND		Spinosad A	32 - 2113	ND
Etoazole	266 - 2690	ND		Spinosad D	63 - 678	ND
Fenoxycarb	46 - 3510	ND		Spiromesifen	226 - 2779	ND
Fipronil	37 - 2722	ND		Spirotetramat	285 - 2752	ND
Flonicamid	32 - 2796	ND		Spiroxamine 1	16 - 1061	ND
Fludioxonil	293 - 2699	ND		Spiroxamine 2	21 - 1505	ND
Hexythiazox	28 - 2808	ND		Tebuconazole	276 - 2710	ND
Imazalil	297 - 2730	ND		Thiacloprid	43 - 2749	ND
Imidacloprid	43 - 2775	ND		Thiamethoxam	37 - 2790	ND
Kresoxim-methyl	34 - 2760	ND		Trifloxystrobin	41 - 2728	ND

Final Approval


Sam Smith
14Jun2024
09:26:00 AM MDT
PREPARED BY / DATE


Karen Winternheimer
14Jun2024
09:27:00 AM MDT
APPROVED BY / DATE

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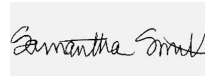
Heavy Metals - Colorado Compliance

Test ID: T000283749
Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 5.23	ND	
Cadmium	0.05 - 4.99	ND	
Mercury	0.05 - 4.86	ND	
Lead	0.05 - 4.89	ND	

Final Approval


Karen Winternheimer
14Jun2024
02:06:00 PM MDT
PREPARED BY / DATE



Sam Smith
14Jun2024
02:38:00 PM MDT
APPROVED BY / DATE


Microbial Contaminants - Colorado Compliance

Test ID: T000283748
Methods: TM25 (qPCR) TM24, TM26,
TM27 (Culture Plating): Microbial
(Colorado Panel)

	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
Salmonella	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	
Total Yeast and Mold*	TM24: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	
Total Aerobic Count*	TM26: Culture Plating	10 ² CFU/g	1.0x10 ³ - 1.5x10 ⁵	None Detected	
Total Coliforms*	TM27: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	

Final Approval


Brett Hudson
14Jun2024
12:00:00 PM MDT
PREPARED BY / DATE


Brianne Maillot
17Jun2024
09:17:00 AM MDT
APPROVED BY / DATE

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<https://results.botanacor.com/api/v1/coas/uuid/5cfaeed-cce9-4d58-84b0-1dd328317ffa>

Definitions
LOD = Limit of Detection, ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation, PPB = Parts per Billion, % = % (w/w) = Percent (weight of analyte / weight of product). ND = None Detected (defined by dynamic range of the method). Total Potential Delta 9-THC or CBD is calculated to take into account the loss of a carboxyl group during decarboxylation step, using the following formulas: Total Potential Delta 9-THC = Delta 9-THC + (Delta 9-THCa * (0.877)) and Total CBD = CBD + (CBDa * (0.877)). Fail equates to a concentration level of Delta 9-THC, on a dry weight basis, higher than 0.3 percent + or - the measurement uncertainty. Total Potential THC is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step. Total THC = THC + (THCa * (0.877)). ALOQ = Above Limit Of Quantitation (defined by dynamic range of the method), CFU/g = Colony Forming Units per Gram. Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form. Examples: 10² = 100 CFU, 10³ = 1,000 CFU, 10⁴ = 10,000 CFU, 10⁵ = 100,000 CFU.

Testing results are based solely upon the sample submitted to SC Laboratories, Inc., in the condition it was received. SC Laboratories, Inc., warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of SC Laboratories, Inc. ISO/IEC 17025:2017 A2LA Cert #: 4329.02 Chemical; 4329.03 Biological. Some tests listed on this COA may not be within our scope of A2LA accreditation. Please visit [A2LA for more details](#).



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