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CERTIFICATE OF ANALYSIS

Prepared for:
Keola Life
2962 Evergreen Parkway
Evergreen, CO USA 80439

Keola Muscle Freeze

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 1 of 1
220303	Various	Unit	
Reported:	Started:	Received:	
08Mar2022	07Mar2022	03Mar2022	

Cannabinoids

Test ID: T000196621
Methods: TM14 (HPLC-DAD): Potency - Broad Spectrum Analysis, 0.01% THC

	LOD (mg)	**LOQ** (mg)	**Result** (mg)	**Result** (mg/g)	**Notes**
Cannabichromene (CBC)	5.365	16.959	73.166	0.84	
Cannabichromenic Acid (CBCA)	4.907	15.512	ND	ND	
Cannabidiol (CBD)	15.068	47.032	2039.072	23.44	
Cannabidiolic Acid (CBDA)	15.455	48.238	ND	ND	
Cannabidivarin (CBDV)	3.564	11.123	8.136*	0.09*	
Cannabidivarinic Acid (CBDVA)	6.447	20.123	ND	ND	
Cannabigerol (CBG)	3.046	9.629	309.484	3.56	
Cannabigerolic Acid (CBGA)	12.733	40.252	ND	ND	
Cannabinol (CBN)	3.974	12.561	ND	ND	
Cannabinolic Acid (CBNA)	8.688	27.462	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	15.170	47.954	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	2.296	7.259	85.264	0.98	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	2.034	6.431	ND	ND	
Tetrahydrocannabivarin (THCV)	2.771	8.758	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	10.767	34.035	ND	ND	
Total Cannabinoids			**2515.122**	**28.91**	
Total Potential THC			85.264	0.98	
Total Potential CBD			2039.072	23.44	

Final Approval

Karen Winternheimer
08Mar2022
02:16:00 PM MST
PREPARED BY / DATE

Sam Smith
08Mar2022
02:22:00 PM MST
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/503d1ab7-f5cc-4711-8f5c-e24e152722a2

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: 10^2 = 100 CFU, 10^3 = 1,000 CFU, 10^4 = 10,000 CFU, 10^5 = 100,000 CFU.

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC 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 Botanacor Laboratories, LLC. ISO/IEC 17025:2017 Accredited by A2LA. Some tests listed on this COA may not be within our scope of A2LA accreditation. Please visit A2LA for more details.

Cert #4329.02
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Keola Life
2962 Evergreen Parkway
Evergreen, CO USA 80439

Relieve Pain Roll-on

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220303	Various	Unit Co	
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27Apr2022	26Apr2022	25Apr2022	

Heavy Metals - Colorado Compliance

Test ID: T000203931
Methods: TM19 (ICP-MS): Heavy Metals

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Arsenic	0.04 - 4.31	ND	
Cadmium	0.04 - 4.25	ND	
Mercury	0.04 - 4.21	ND	
Lead	0.04 - 4.11	ND	

Final Approval

Kayla Phye
27Apr2022
04:17:00 PM MDT
PREPARED BY / DATE

Daniel Weidensaul
27Apr2022
04:21:00 PM MDT
APPROVED BY / DATE

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Residual Solvents - Colorado Compliance

Test ID: T000203932
Methods: TM04 (GC-MS): Residual Solvents

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Propane	56 - 1116	ND	
Butanes (Isobutane, n-Butane)	113 - 2251	ND	
Methanol	41 - 819	ND	
Pentane	60 - 1193	ND	
Ethanol	64 - 1276	319	
Acetone	64 - 1280	202	
Isopropyl Alcohol	69 - 1374	>1374	
Hexane	4 - 81	ND	
Ethyl Acetate	66 - 1329	ND	
Benzene	0.1 - 2.7	0.2	
Heptanes	65 - 1294	ND	
Toluene	12 - 238	ND	
Xylenes (m,p,o-Xylenes)	86 - 1726	ND	

Final Approval

Jacob Miller
29Apr2022
11:18:00 AM MDT
PREPARED BY / DATE

Ryan Weems
29Apr2022
11:20:00 AM MDT
APPROVED BY / DATE

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Pesticides

Test ID: T000203929
Methods: TM17

(LC-QQ LC MS/MS)	**Dynamic Range** (ppb)	**Result** (ppb)
Abamectin	285 - 2628	ND
Acephate	38 - 2770	ND
Acetamiprid	39 - 2819	ND
Azoxystrobin	46 - 2530	ND
Bifenazate	48 - 2573	ND
Boscalid	47 - 2600	ND
Carbaryl	42 - 2744	ND
Carbofuran	45 - 2678	ND
Chlorantraniliprole	61 - 2572	ND
Chlorpyrifos	48 - 2876	ND
Clofentezine	246 - 2796	ND
Diazinon	294 - 2647	ND
Dichlorvos	279 - 2796	ND
Dimethoate	41 - 2757	ND
E-Fenpyroximate	296 - 2610	ND
Etofenprox	41 - 2786	ND
Etoxazole	301 - 2740	ND
Fenoxycarb	33 - 2712	ND
Fipronil	32 - 2578	ND
Flonicamid	48 - 2811	ND
Fludioxonil	297 - 2676	ND
Hexythiazox	44 - 2697	ND
Imazalil	300 - 2740	ND
Imidacloprid	40 - 2795	ND
Kresoxim-methyl	66 - 2546	ND

	Dynamic Range (ppb)	**Result** (ppb)
Malathion	282 - 2708	ND
Metalaxyl	45 - 2675	ND
Methiocarb	42 - 2677	ND
Methomyl	40 - 2841	ND
MGK 264 1	173 - 1600	ND
MGK 264 2	109 - 1113	ND
Myclobutanil	15 - 2793	ND
Naled	53 - 2738	ND
Oxamyl	38 - 2874	ND
Paclobutrazol	42 - 2774	ND
Permethrin	300 - 2836	ND
Phosmet	44 - 2680	ND
Prophos	285 - 2734	ND
Propoxur	42 - 2745	ND
Pyridaben	291 - 2779	ND
Spinosad A	35 - 2261	ND
Spinosad D	48 - 509	ND
Spiromesifen	316 - 2783	ND
Spirotetramat	248 - 2558	ND
Spiroxamine 1	19 - 1170	ND
Spiroxamine 2	26 - 1553	ND
Tebuconazole	275 - 2750	ND
Thiacloprid	42 - 2777	ND
Thiamethoxam	40 - 2739	ND
Trifloxystrobin	45 - 2705	ND

Final Approval

Daniel Weidensaul
29Apr2022
01:18:00 PM MDT
PREPARED BY / DATE

Karen Winternheimer
29Apr2022
01:20:00 PM MDT
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Microbial Contaminants - Colorado Compliance

Test ID: T000203930
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

Carly Bader
29Apr2022
10:14:00 AM MDT
PREPARED BY / DATE

Eden Thompson-Wright
29Apr2022
03:11:00 PM MDT
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/953912ee-237b-4f3d-bea0-aeabb092d0a6

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