

Prepared for:
Pet Relief

8100 Southpark Way #A3
Littleton, CO USA 80120

600mg-Hip & Joint

Batch ID or Lot Number: 1223FH606	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 2 of 6
Reported: 04Dec2023	Started: 01Dec2023	Received: 01Dec2023	


Cannabinoids - Colorado Compliance


Test ID: T000263602

Methods: TM14 (HPLC-DAD): Potency – Standard

Cannabinoid Analysis	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.067	0.227	0.616	0.65	Density = 0.945g/mL
Cannabichromenic Acid (CBCA)	0.061	0.208	ND	ND	
Cannabidiol (CBD)	0.228	0.543	21.496	22.75	
Cannabidiolic Acid (CBDA)	0.234	0.557	ND	ND	
Cannabidivarin (CBDV)	0.054	0.128	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.098	0.232	ND	ND	
Cannabigerol (CBG)	0.038	0.129	0.178	0.19	
Cannabigerolic Acid (CBGA)	0.159	0.540	ND	ND	
Cannabinol (CBN)	0.050	0.168	0.200	0.21	
Cannabinolic Acid (CBNA)	0.109	0.368	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.190	0.643	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.172	0.584	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.153	0.517	ND	ND	
Tetrahydrocannabivarin (THCV)	0.035	0.117	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.135	0.456	ND	ND	
Total Cannabinoids			22.490	23.80	
Total Potential THC			ND	ND	
Total Potential CBD			21.496	22.75	

Final Approval


Sam Smith
05Dec2023
11:55:00 AM MST
PREPARED BY / DATE


Karen Winternheimer
05Dec2023
12:04:00 PM MST
APPROVED BY / DATE

Heavy Metals - Colorado Compliance


Approved: Paul Gennings QC 12-04-23


Test ID: T000263605

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.61	ND	
Cadmium	0.05 - 4.52	ND	
Mercury	0.05 - 4.50	ND	
Lead	0.05 - 4.79	ND	

Final Approval


Sam Smith
06Dec2023
02:47:00 PM MST
PREPARED BY / DATE


Karen Winternheimer
06Dec2023
02:52:00 PM MST
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Prepared for:

Pet Releaf

8100 Southpark Way #A3
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Microbial Contaminants - Colorado Compliance

Test ID: T000263604

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
<i>Salmonella</i>	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



Eden Thompson-Wright
04Dec2023
02:15:00 PM MST

PREPARED BY / DATE



Brianne Maillot
04Dec2023
03:09:00 PM MST

APPROVED BY / DATE

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Pet Relief

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Residual Solvents - Colorado Compliance

Test ID: T000263606


Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	93 - 1867	ND	
Butanes (Isobutane, n-Butane)	182 - 3649	ND	
Methanol	62 - 1244	ND	
Pentane	99 - 1982	ND	
Ethanol	103 - 2068	ND	
Acetone	105 - 2109	ND	
Isopropyl Alcohol	117 - 2342	ND	
Hexane	6 - 127	ND	
Ethyl Acetate	108 - 2153	ND	
Benzene	0.2 - 4.2	ND	
Heptanes	103 - 2054	ND	
Toluene	20 - 392	ND	
Xylenes (m,p,o-Xylenes)	144 - 2880	ND	

Final Approval

 Karen Winternheimer
06Dec2023
12:42:00 PM MST

PREPARED BY / DATE

 Sam Smith
06Dec2023
12:44:00 PM MST

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Pet Relief

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Mycotoxins - Colorado Compliance

Test ID: T000263607
Methods: TM18 (UHPLC-QQQ)
LCMS/MS: Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	3.78 - 129.94	ND	N/A
Aflatoxin B1	1.03 - 32.77	ND	
Aflatoxin B2	0.93 - 33.22	ND	
Aflatoxin G1	1.03 - 33.09	ND	
Aflatoxin G2	1.09 - 33.67	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval


Karen Winternheimer
07Dec2023
12:55:00 PM MST
PREPARED BY / DATE


Sam Smith
07Dec2023
12:56:00 PM MST
APPROVED BY / DATE

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Pet Relief

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Pesticides


Test ID: T000263603

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	329 - 2679	ND		Malathion	279 - 2664	ND
Acephate	48 - 2797	ND		Metalaxyl	47 - 2702	ND
Acetamiprid	45 - 2749	ND		Methiocarb	49 - 2697	ND
Azoxystrobin	44 - 2707	ND		Methomyl	45 - 2816	ND
Bifenazate	47 - 2673	ND		MGK 264 1	160 - 1609	ND
Boscalid	47 - 2696	ND		MGK 264 2	106 - 1064	ND
Carbaryl	44 - 2731	ND		Myclobutanil	18 - 2637	ND
Carbofuran	43 - 2710	ND		Naled	41 - 2708	ND
Chlorantraniliprole	48 - 2723	ND		Oxamyl	47 - 2800	ND
Chlorpyrifos	21 - 2701	ND		Paclobutrazol	43 - 2733	ND
Clofentezine	256 - 2706	ND		Permethrin	293 - 2660	ND
Diazinon	272 - 2700	ND		Phosmet	41 - 2545	ND
Dichlorvos	288 - 2784	ND		Prophos	304 - 2654	ND
Dimethoate	46 - 2763	ND		Propoxur	42 - 2715	ND
E-Fenpyroximate	290 - 2716	ND		Pyridaben	282 - 2693	ND
Etofenprox	41 - 2674	ND		Spinosad A	29 - 2107	ND
Etoxazole	292 - 2599	ND		Spinosad D	61 - 656	ND
Fenoxycarb	21 - 2706	ND		Spiromesifen	268 - 2623	ND
Fipronil	48 - 2760	ND		Spirotetramat	283 - 2740	ND
Flonicamid	49 - 2803	ND		Spiroxamine 1	16 - 1001	ND
Fludioxonil	316 - 2666	ND		Spiroxamine 2	28 - 1579	ND
Hexythiazox	46 - 2661	ND		Tebuconazole	293 - 2678	ND
Imazalil	265 - 2718	ND		Thiacloprid	46 - 2782	ND
Imidacloprid	48 - 2888	ND		Thiamethoxam	45 - 2802	ND
Kresoxim-methyl	46 - 2702	ND		Trifloxystrobin	42 - 2738	ND

Final Approval


 Karen Winternheimer
 08Dec2023
 10:17:00 AM MST
 PREPARED BY / DATE


 Sam Smith
 08Dec2023
 10:24:00 AM MST
 APPROVED BY / DATE

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Pet Releaf

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Approved: Paul Gennings QC 12-04-23



<https://results.botanacor.com/api/v1/coas/uuid/f3780d2d-a62f-43c4-9d1a-dba49693914c>

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 \times (0.877)) and Total CBD = CBD + (CBDa \times (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 \times (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 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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