Official Compliance: Colorado



CERTIFICATE OF ANALYSIS

Prepared for: Pet Releaf

8100 Southpark Way #A3

Littleton, CO USA 80120

600 mg - Hip & Joint

Batch ID or Lot Number: 0923FH605	Test: Potency	Reported: 21Sep2023	USDA License: N/A	
Matrix:	Test ID:	Started:	Sampler ID:	
Solution	T000256845	21Sep2023	N/A	
	Method(s):	Received:	Status:	
	TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	21Sep2023	Active	

Cannabinoids			Result		
Cannapinolus	LOD (mg/mL)	LOQ (mg/mL)	(mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.055	0.190	0.693	0.73	Density =
Cannabichromenic Acid (CBCA)	0.050	0.174	ND	ND	0.945g/mL
Cannabidiol (CBD)	0.174	0.482	21.209	22.44	
Cannabidiolic Acid (CBDA)	0.179	0.494	<loq< td=""><td><loq< td=""><td></td></loq<></td></loq<>	<loq< td=""><td></td></loq<>	
Cannabidivarin (CBDV)	0.041	0.114	<loq< td=""><td><loq< td=""><td></td></loq<></td></loq<>	<loq< td=""><td></td></loq<>	
Cannabidivarinic Acid (CBDVA)	0.075	0.206	ND	ND	
Cannabigerol (CBG)	0.031	0.108	0.362	0.38	
Cannabigerolic Acid (CBGA)	0.130	0.451	ND	ND	
Cannabinol (CBN)	0.041	0.141	<loq< td=""><td><loq< td=""><td></td></loq<></td></loq<>	<loq< td=""><td></td></loq<>	
Cannabinolic Acid (CBNA)	0.089	0.308	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.155	0.537	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.141	0.488	0.526	0.56	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.125	0.432	ND	ND	
Tetrahydrocannabivarin (THCV)	0.028	0.098	<loq< td=""><td><loq< td=""><td></td></loq<></td></loq<>	<loq< td=""><td></td></loq<>	
Tetrahydrocannabivarinic Acid (THCVA)	0.110	0.381	ND	ND	
Total Cannabinoids			22.790	24.11	
Total Potential THC			0.526	0.56	
Total Potential CBD			21.209	22.44	

Approved: Paul Gennings QC 09-21-23

Final Approval

PREPARED BY / DATE

Karen Winternheimer 21Sep2023 01:47:00 PM MDT

Amantha





APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/1557bee1-9fa5-44eb-8283-ae0db7cdd61f

Definitions

% = % (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)).

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 Accredited by A2LA.





Prepared for:

Pet Releaf

8100 Southpark Way #A3 Littleton, CO USA 80120

600 mg - Hip & Joint

Batch ID or Lot Number: 0923FH605	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 1 of 6	
Reported: 12Sep2023	Started: 09Sep2023	Received: 11Sep2023		

Mycotoxins - Colorado Compliance

compliance	
Test ID: T00025564	1

Methods: TM18 (UHPLC-QQQ				
LCMS/MS): Mycotoxins	Dynamic Range (ppb)	Result (ppb)	Notes	
Ochratoxin A	3.29 - 124.10	ND	N/A	
Aflatoxin B1	1.08 - 32.68	ND		
Aflatoxin B2	1.04 - 32.45	ND		
Aflatoxin G1	1.08 - 32.71	ND		
Aflatoxin G2	1.27 - 33.23	ND		
Total Aflatoxins (B1, B2, G1, and	G2)	ND		

Final Approval

Sam Smith Somentha Smill 12Sep2023 06:21:00 AM MDT

APPROVED BY / DATE

Karen Winternheimer Winternheimen 125ep2023 06:22:00 AM MDT

PREPARED BY / DATE



Prepared for:

Pet Releaf

8100 Southpark Way #A3 Littleton, CO USA 80120

600 mg - Hip & Joint

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 3 of 6
0923FH605	Various	Finished Product	
Reported:	Started:	Received:	
12Sep2023	09Sep2023	11Sep2023	

Residual Solvents -Colorado Compliance

Test ID: T000255640			
Methods: TM04 (GC-MS): Residual			
Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	113 - 2251	ND	
Butanes (Isobutane, n-Butane)	223 - 4467	ND	
Methanol	68 - 1352	ND	
Pentane	113 - 2261	ND	
Ethanol	109 - 2190	ND	
Acetone	112 - 2231	ND	
Isopropyl Alcohol	112 - 2241	ND	
Hexane	7 - 133	ND	
Ethyl Acetate	109 - 2170	ND	
Benzene	0.2 - 4.5	ND	
Heptanes	111 - 2229	ND	
Toluene	20 - 402	ND	
Xylenes (m,p,o-Xylenes)	145 - 2906	ND	

Final Approval

Karen Winternheimer 13Sep2023 Mtenhermen 02:43:00 PM MDT

Sam Smith Somentha Smith 13Sep2023 02:44:00 PM MDT APPROVED BY / DATE

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Prepared for:

Pet Releaf

8100 Southpark Way #A3 Littleton, CO USA 80120

600 mg - Hip & Joint

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 4 of 6
0923FH605	Various	Finished Product	
Reported:	Started:	Received:	
12Sep2023	09Sep2023	11Sep2023	

Microbial **Contaminants** -**Colorado Compliance**

Test ID: T000255638

Methods: TM25 (qPCR) TM24, TM26,

TM27 (Culture Plating): Microbial			Quantitation			
(Colorado Panel)	Method	LOD	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

Brianne Maillot Buanne Maillob 14Sep2023

08:58:00 AM MDT

Realt Value

Brett Hudson 14Sep2023 09:43:00 AM MDT

PREPARED BY / DATE

APPROVED BY / DATE



600 mg - Hip & Joint

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Pet Releaf

8100 Southpark Way #A3

Littl	eton,	CO	USA	80120	

Batch ID or Lot Number: 0923FH605	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 5 of 6	
Reported: 12Sep2023	Started: 09Sep2023	Received: 11Sep2023		

Pesticides

Test ID: T000255637 Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)
Abamectin	352 - 2613	ND	Malathion	273 - 2712	ND
Acephate	45 - 2712	ND	Metalaxyl	47 - 2676	ND
Acetamiprid	42 - 2736	ND	Methiocarb	47 - 2784	ND
Azoxystrobin	48 - 2669	ND	Methomyl	42 - 2775	ND
Bifenazate	47 - 2705	ND	MGK 264 1	132 - 1693	ND
Boscalid	50 - 2752	ND	MGK 264 2	110 - 1068	ND
Carbaryl	45 - 2704	ND	Myclobutanil	93 - 2714	ND
Carbofuran	45 - 2713	ND	Naled	46 - 2744	ND
Chlorantraniliprole	43 - 2842	ND	Oxamyl	43 - 2782	ND
Chlorpyrifos	47 - 2725	ND	Paclobutrazol	45 - 2756	ND
Clofentezine	268 - 2759	ND	Permethrin	278 - 2737	ND
Diazinon	280 - 2723	ND	Phosmet	42 - 2686	ND
Dichlorvos	255 - 2755	ND	Prophos	295 - 2783	ND
Dimethoate	42 - 2743	ND	Propoxur	45 - 2701	ND
E-Fenpyroximate	280 - 2753	ND	Pyridaben	300 - 2719	ND
Etofenprox	45 - 2650	ND	Spinosad A	34 - 2073	ND
Etoxazole	307 - 2718	ND	Spinosad D	72 - 670	ND
Fenoxycarb	25 - 2756	ND	Spiromesifen	264 - 2755	ND
Fipronil	36 - 2773	ND	Spirotetramat	261 - 2774	ND
Flonicamid	50 - 2757	ND	Spiroxamine 1	20 - 1216	ND
Fludioxonil	305 - 2727	ND	Spiroxamine 2	25 - 1555	ND
Hexythiazox	43 - 2745	ND	Tebuconazole	312 - 2653	ND
Imazalil	282 - 2706	ND	Thiacloprid	44 - 2738	ND
Imidacloprid	42 - 2790	ND	Thiamethoxam	43 - 2764	ND
Kresoxim-methyl	47 - 2693	ND	Trifloxystrobin	46 - 2680	ND

Final Approval



Karen Winternheimer 14Sep2023 Mtenheimer 08:36:00 AM MDT

Sam Smith Samantha Smith 14Sep2023 08:38:00 AM MDT

APPROVED BY / DATE



Prepared for:

Pet Releaf

8100 Southpark Way #A3 Littleton, CO USA 80120

600 mg - Hip & Joint

Batch ID or Lot Number: 0923FH605	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 6 of 6	
Reported: 12Sep2023	Started: 09Sep2023	Received: 11Sep2023		

Heavy Metals -Colorado Compliance

Test ID: T000255639

Methods: TM19 (ICP-MS): Heavy				
Metals	Dynamic Range (ppm)	Result (ppm)	Notes	
Arsenic	0.04 - 4.17	ND		
Cadmium	0.04 - 4.46	ND		
Mercury	0.04 - 4.30	ND		
Lead	0.04 - 4.38	ND		

Final Approval

Samantha Smith 15: PREPARED BY / DATE

Sam Smith 15Sep2023 11:35:00 AM MDT

nternheimer APPROVED BY / DATE

Karen Winternheimer 15Sep2023 11:42:00 AM MDT

Approved: Paul Gennings QC 09-21-23



Definitions

https://results.botanacor.com/api/v1/coas/uuid/621e4e9b-1442-4105-a398-066683381767

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 by dynamic range of the method), 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.

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