

Prepared for:
Pet Releaf

8100 Southpark Way #A3
Littleton, CO USA 80120

Feline Stress Releaf - 180 mg

Batch ID or Lot Number: 0822FR1801	Test, Test ID and Methods: Various	Matrix: Solution	Page 1 of 5
Reported: 17Aug2022	Started: 16Aug2022	Received: 12Aug2022	

Cannabinoids - Colorado Compliance

Test ID: T000217539


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

Cannabinoid Analysis

	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.054	0.171	0.256	0.27	Density = 0.94g/mL
Cannabichromenic Acid (CBCA)	0.050	0.156	ND	ND	
Cannabidiol (CBD)	0.121	0.437	6.906	7.35	
Cannabidiolic Acid (CBDA)	0.125	0.448	ND	ND	
Cannabidivarin (CBDV)	0.029	0.103	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.052	0.187	ND	ND	
Cannabigerol (CBG)	0.031	0.097	<LOQ	0.09	
Cannabigerolic Acid (CBGA)	0.129	0.405	ND	ND	
Cannabinol (CBN)	0.040	0.126	ND	ND	
Cannabinolic Acid (CBNA)	0.088	0.276	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.154	0.482	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.140	0.438	0.245	0.26	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.124	0.388	ND	ND	
Tetrahydrocannabivarin (THCV)	0.028	0.088	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.109	0.342	ND	ND	
Total Cannabinoids			7.492	7.97	
Total Potential THC			0.245	0.26	
Total Potential CBD			6.906	7.35	

Final Approval


Karen Winternheimer
17Aug2022
02:13:00 PM MDT
PREPARED BY / DATE


Daniel Weidensaul
17Aug2022
02:16:00 PM MDT
APPROVED BY / DATE

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Mycotoxins - Colorado Compliance

Test ID: T000217544
Methods: TM18 (UHPLC-QQQ)
LCMS/MS: Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	1.94 - 126.43	ND	N/A
Aflatoxin B1	1.06 - 32.22	ND	
Aflatoxin B2	1.03 - 32.41	ND	
Aflatoxin G1	1.13 - 32.53	ND	
Aflatoxin G2	1.16 - 32.06	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval


Samantha Smith
17Aug2022
02:08:00 PM MDT
PREPARED BY / DATE



Jacob Miller
17Aug2022
02:10:00 PM MDT
APPROVED BY / DATE


Microbial Contaminants - Colorado Compliance

Test ID: T000217541
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	<LLOQ	
Total Coliforms*	TM27: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	

Final Approval


Brett Hudson
18Aug2022
11:31:00 AM MDT
PREPARED BY / DATE


Brianne Maillot
18Aug2022
03:47:00 PM MDT
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Residual Solvents - Colorado Compliance

Test ID: T000217543

Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	86 - 1724	ND	
Butanes (Isobutane, n-Butane)	179 - 3570	ND	
Methanol	60 - 1208	ND	
Pentane	94 - 1881	ND	
Ethanol	91 - 1823	ND	
Acetone	99 - 1982	ND	
Isopropyl Alcohol	102 - 2039	ND	
Hexane	6 - 120	ND	
Ethyl Acetate	100 - 1993	ND	
Benzene	0.2 - 3.9	ND	
Heptanes	99 - 1983	ND	
Toluene	18 - 354	ND	
Xylenes (m,p,o-Xylenes)	132 - 2632	ND	

Final Approval


Sam Smith
19Aug2022
06:37:00 PM MDT

PREPARED BY / DATE


Daniel Weidensaul
19Aug2022
06:51:00 PM MDT

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Pesticides


Test ID: T000217540

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	308 - 2732	ND		Malathion	270 - 2721	ND
Acephate	40 - 2787	ND		Metalaxyl	44 - 2712	ND
Acetamiprid	40 - 2697	ND		Methiocarb	38 - 2734	ND
Azoxystrobin	41 - 2712	ND		Methomyl	39 - 2706	ND
Bifenazate	41 - 2673	ND		MGK 264 1	158 - 1631	ND
Boscalid	39 - 2759	ND		MGK 264 2	113 - 1163	ND
Carbaryl	39 - 2720	ND		Myclobutanil	44 - 2705	ND
Carbofuran	43 - 2690	ND		Naled	48 - 2733	ND
Chlorantraniliprole	38 - 2716	ND		Oxamyl	40 - 2690	ND
Chlorpyrifos	41 - 2732	ND		Paclobutrazol	42 - 2711	ND
Clofentezine	289 - 2730	ND		Permethrin	293 - 2771	ND
Diazinon	290 - 2770	ND		Phosmet	39 - 2677	ND
Dichlorvos	277 - 2714	ND		Prophos	281 - 2721	ND
Dimethoate	42 - 2706	ND		Propoxur	42 - 2700	ND
E-Fenpyroximate	286 - 2760	ND		Pyridaben	295 - 2764	ND
Etofenprox	41 - 2760	ND		Spinosad A	30 - 2258	ND
Etoxazole	288 - 2736	ND		Spinosad D	47 - 504	ND
Fenoxycarb	41 - 2701	ND		Spiromesifen	272 - 2759	ND
Fipronil	40 - 2771	ND		Spirotetramat	265 - 2748	ND
Flonicamid	47 - 2738	ND		Spiroxamine 1	17 - 1172	ND
Fludioxonil	256 - 2768	ND		Spiroxamine 2	23 - 1571	ND
Hexythiazox	40 - 2773	ND		Tebuconazole	302 - 2715	ND
Imazalil	274 - 2744	ND		Thiacloprid	42 - 2687	ND
Imidacloprid	41 - 2733	ND		Thiamethoxam	37 - 2727	ND
Kresoxim-methyl	22 - 2788	ND		Trifloxystrobin	41 - 2734	ND

Final Approval


Sam Smith
18Aug2022
02:14:00 PM MDT
PREPARED BY / DATE


Karen Winternheimer
19Aug2022
12:39:00 PM MDT
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Heavy Metals - Colorado Compliance

Test ID: T000217542

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.56	ND	
Cadmium	0.04 - 4.44	ND	
Mercury	0.04 - 4.49	ND	
Lead	0.04 - 4.39	ND	

Final Approval



Daniel Weidensaul
24Aug2022
06:50:00 PM MDT

PREPARED BY / DATE



Courtney Richards
24Aug2022
08:09:00 PM MDT

APPROVED BY / DATE

APPROVED

Justin Thomson 09/15/2022
NPD Quality Manager



<https://results.botanacor.com/api/v1/coas/uuid/570c83c7-44a7-4270-963c-853f855a815a>

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.

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