SC Labs®
Formerly Botanacor Labs

Official Compliance: Colorado

CERTIFICATE OF ANALYSIS

Prepared for:
Pet Releaf
8100 Southpark Way #A3
Littleton, CO USA 80120

Equine Joint Releaf - 2400 MG

Batch ID or Lot Number:	Test:	Reported:	USDA License:
0822EJ2401	**Potency**	**06Sep2022**	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Solution	T000219629	29Aug2022	N/A
	Method(s): TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	Received: 26Aug2022	Status: Active

Cannabinoids

	LOD (mg/mL)	**LOQ** (mg/mL)	**Result** (mg/mL)	**Result** (mg/g)	**Notes**
Cannabichromene (CBC)	0.063	0.190	3.999	4.25	Density = 0.94g/mL
Cannabichromenic Acid (CBCA)	0.057	0.173	ND	ND	
Cannabidiol (CBD)	0.129	0.478	81.164	86.34	
Cannabidiolic Acid (CBDA)	0.132	0.490	0.741	0.79	
Cannabidivarin (CBDV)	0.030	0.113	0.527	0.56	
Cannabidivarinic Acid (CBDVA)	0.055	0.204	ND	ND	
Cannabigerol (CBG)	0.036	0.108	1.624	1.73	
Cannabigerolic Acid (CBGA)	0.149	0.450	ND	ND	
Cannabinol (CBN)	0.047	0.140	<LOQ	0.13	
Cannabinolic Acid (CBNA)	0.102	0.307	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.178	0.536	<LOQ	0.23	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.161	0.487	2.514	2.67	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.143	0.431	ND	ND	
Tetrahydrocannabivarin (THCV)	0.032	0.098	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.126	0.380	ND	ND	
Total Cannabinoids			**90.914**	**96.72**	
Total Potential THC			2.514	2.67	
Total Potential CBD			81.814	87.04	

Final Approval

Karen Winternheimer
30Aug2022
11:01:00 AM MDT
PREPARED BY / DATE

Jacob Miller
30Aug2022
11:05:00 AM MDT
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/fdc67d91-474b-4b14-a2eb-7e4c251ebb5e

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)).

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Equine Joint Releaf - 2400 mg

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	
0822EJ2401	Various	Solution	
Reported:	Started:	Received:	
17Aug2022	16Aug2022	12Aug2022	

Mycotoxins - Colorado Compliance

Test ID: T000217538
Methods: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins

	Dynamic Range (ppb)	**Result** (ppb)	**Notes**
Ochratoxin A	1.98 - 129.03	ND	N/A
Aflatoxin B1	1.09 - 32.88	ND	
Aflatoxin B2	1.05 - 33.07	ND	
Aflatoxin G1	1.15 - 33.20	ND	
Aflatoxin G2	1.18 - 32.72	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval

Sam 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: T000217535
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
18Aug2022
11:31:00 AM MDT
PREPARED BY / DATE

Brianne Maillot
18Aug2022
03:47:00 PM MDT
APPROVED BY / DATE

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Residual Solvents - Colorado Compliance

Test ID: T000217537
Methods: TM04 (GC-MS): Residual Solvents

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Propane	94 - 1874	ND	
Butanes (Isobutane, n-Butane)	194 - 3882	ND	
Methanol	66 - 1314	ND	
Pentane	102 - 2045	ND	
Ethanol	99 - 1982	ND	
Acetone	108 - 2155	ND	
Isopropyl Alcohol	111 - 2216	ND	
Hexane	7 - 130	ND	
Ethyl Acetate	108 - 2167	ND	
Benzene	0.2 - 4.3	ND	
Heptanes	108 - 2156	ND	
Toluene	19 - 385	ND	
Xylenes (m,p,o-Xylenes)	143 - 2862	ND	

Final Approval

Samantha Smith
Sam Smith
19Aug2022
06:37:00 PM MDT
PREPARED BY / DATE

Daniel Weidensaul
Daniel Weidensaul
19Aug2022
06:51:00 PM MDT
APPROVED BY / DATE

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0822EJ2401	Various	Solution	
Reported:	Started:	Received:	
17Aug2022	16Aug2022	12Aug2022	

Pesticides

Test ID: T000217534
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

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

K Winternheimer
Karen Winternheimer
19Aug2022
12:39:00 PM MDT
APPROVED BY / DATE

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0822EJ2401	Various	Solution	
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17Aug2022	16Aug2022	12Aug2022	

Heavy Metals - Colorado Compliance

Test ID: T000217536
Methods: TM19 (ICP-MS): Heavy Metals

Dynamic Range (ppm)	**Result** (ppm)	**Notes**
0.05 - 4.56	ND	
0.04 - 4.44	ND	
0.04 - 4.49	ND	
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/ffb825c7-f059-4bdb-80c7-93b525dd879c

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.

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