SC Labs®
Formerly Botanacor Labs

CERTIFICATE OF ANALYSIS

Prepared for:
SUPERIOR MOLECULAR LLC
4459 WHITE BEAR PKWY
WHITE BEAR LAKE, MN USA 55110

Bent Paddle Mango Tangerine 12/13/2023

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 1 of 5
MT.D9CBD.121323	Various	Finished Product	
Reported:	Started:	Received:	
20Dec2023	19Dec2023	18Dec2023	

Heavy Metals

Test ID: T000265295
Methods: TM19 (ICP-MS): Heavy Metals

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Arsenic	0.04 - 4.06	ND	
Cadmium	0.04 - 4.19	ND	
Mercury	0.04 - 4.23	ND	
Lead	0.04 - 4.16	ND	

Final Approval

Sam Smith
20Dec2023
09:15:00 AM MST
PREPARED BY / DATE

Karen Winternheimer
20Dec2023
10:52:00 AM MST
APPROVED BY / DATE

Cannabinoids

Test ID: T000265292
Methods: TM14 (HPLC-DAD)

	LOD (mg)	**LOQ** (mg)	**Result** (mg)	**Result** (mg/g)	**Notes**
Cannabichromene (CBC)	0.258	0.929	ND	ND	# of Servings = 1, Sample Weight=4g
Cannabichromenic Acid (CBCA)	0.236	0.850	ND	ND	
Cannabidiol (CBD)	0.817	2.368	4.790	1.20	
Cannabidiolic Acid (CBDA)	0.838	2.429	ND	ND	
Cannabidivarin (CBDV)	0.193	0.560	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.349	1.013	ND	ND	
Cannabigerol (CBG)	0.146	0.528	ND	ND	
Cannabigerolic Acid (CBGA)	0.612	2.206	ND	ND	
Cannabinol (CBN)	0.191	0.688	ND	ND	
Cannabinolic Acid (CBNA)	0.417	1.505	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.729	2.628	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.662	2.387	4.900	1.20	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.586	2.115	ND	ND	
Tetrahydrocannabivarin (THCV)	0.133	0.480	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.517	1.865	ND	ND	
Total Cannabinoids			**9.690**	**2.40**	
Total Potential THC			4.900	1.20	
Total Potential CBD			4.790	1.20	

Final Approval

Karen Winternheimer
20Dec2023
02:30:00 PM MST
PREPARED BY / DATE

Sam Smith
20Dec2023
02:31:00 PM MST
APPROVED BY / DATE

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Residual Solvents

Test ID: T000265296
Methods: TM04 (GC-MS): Residual Solvents

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Propane	98 - 1952	ND	
Butanes (Isobutane, n-Butane)	189 - 3775	ND	
Methanol	66 - 1326	ND	
Pentane	102 - 2034	ND	
Ethanol	109 - 2175	ND	
Acetone	106 - 2129	ND	
Isopropyl Alcohol	117 - 2335	ND	
Hexane	6 - 129	ND	
Ethyl Acetate	107 - 2133	ND	
Benzene	0.2 - 4.2	ND	
Heptanes	104 - 2080	ND	
Toluene	19 - 388	ND	
Xylenes (m,p,o-Xylenes)	144 - 2877	ND	

Final Approval

Karen Winternheimer
20Dec2023
10:15:00 AM MST
PREPARED BY / DATE

Sam Smith
20Dec2023
10:38:00 AM MST
APPROVED BY / DATE

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Microbial Contaminants

Test ID: T000265294
Methods: TM25 (PCR) TM24, TM26, TM27 (Culture Plating)

	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
21Dec2023
09:55:00 AM MST
PREPARED BY / DATE

Eden Thompson-Wright
21Dec2023
10:26:00 AM MST
APPROVED BY / DATE

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Pesticides

Test ID: T000265293
Methods: TM17

(LC-QQ LC MS/MS)	**Dynamic Range** (ppb)	**Result** (ppb)		**Dynamic Range** (ppb)	**Result** (ppb)
Abamectin	365 - 2850	ND	Malathion	296 - 2720	ND
Acephate	42 - 2697	ND	Metalaxyl	39 - 2698	ND
Acetamiprid	41 - 2724	ND	Methiocarb	42 - 2709	ND
Azoxystrobin	41 - 2696	ND	Methomyl	40 - 2754	ND
Bifenazate	42 - 2662	ND	MGK 264 1	170 - 1649	ND
Boscalid	37 - 2605	ND	MGK 264 2	115 - 1109	ND
Carbaryl	42 - 2643	ND	Myclobutanil	72 - 2717	ND
Carbofuran	42 - 2668	ND	Naled	44 - 2578	ND
Chlorantraniliprole	47 - 2712	ND	Oxamyl	40 - 2742	ND
Chlorpyrifos	22 - 2824	ND	Paclobutrazol	40 - 2620	ND
Clofentezine	286 - 2739	ND	Permethrin	266 - 2818	ND
Diazinon	274 - 2706	ND	Phosmet	42 - 2573	ND
Dichlorvos	206 - 2817	ND	Prophos	279 - 2726	ND
Dimethoate	42 - 2753	ND	Propoxur	41 - 2627	ND
E-Fenpyroximate	252 - 2816	ND	Pyridaben	298 - 2816	ND
Etofenprox	45 - 2800	ND	Spinosad A	33 - 2034	ND
Etoxazole	296 - 2715	ND	Spinosad D	67 - 684	ND
Fenoxycarb	47 - 2694	ND	Spiromesifen	274 - 2821	ND
Fipronil	40 - 2846	ND	Spirotetramat	270 - 2754	ND
Flonicamid	50 - 2811	ND	Spiroxamine 1	15 - 1002	ND
Fludioxonil	293 - 2731	ND	Spiroxamine 2	25 - 1561	ND
Hexythiazox	40 - 2850	ND	Tebuconazole	268 - 2629	ND
Imazalil	287 - 2684	ND	Thiacloprid	42 - 2734	ND
Imidacloprid	40 - 2717	ND	Thiamethoxam	43 - 2762	ND
Kresoxim-methyl	38 - 2748	ND	Trifloxystrobin	42 - 2672	ND

Final Approval

Karen Winternheimer
24Dec2023
11:01:00 AM MST
PREPARED BY / DATE

Sam Smith
24Dec2023
11:04:00 AM MST
APPROVED BY / DATE

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https://results.botanacor.com/api/v1/coas/uuid/7a74e0c7-14c5-4d35-9222-78beadb0c0e4

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.

Cert #4329.02
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