SC Labs®
Formerly Botanacor Labs

CERTIFICATE OF ANALYSIS

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

56 Acre Ginger Lime 10/19/23

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 1 of 5
GIL.D9.101923	Various	Finished Product	
Reported:	Started:	Received:	
25Oct2023	24Oct2023	23Oct2023	

Pesticides

Test ID: T000259742
Methods: TM17

(LC-QQ LC MS/MS)	**Dynamic Range** (ppb)	**Result** (ppb)		**Dynamic Range** (ppb)	**Result** (ppb)
Abamectin	285 - 2621	ND	Malathion	290 - 2740	ND
Acephate	44 - 2875	ND	Metalaxyl	45 - 2686	ND
Acetamiprid	46 - 2783	ND	Methiocarb	43 - 2692	ND
Azoxystrobin	45 - 2697	ND	Methomyl	44 - 2849	ND
Bifenazate	40 - 2645	ND	MGK 264 1	177 - 1656	ND
Boscalid	37 - 2708	ND	MGK 264 2	116 - 1052	ND
Carbaryl	44 - 2656	ND	Myclobutanil	89 - 2626	ND
Carbofuran	47 - 2714	ND	Naled	48 - 2737	ND
Chlorantraniliprole	40 - 2711	ND	Oxamyl	43 - 2836	ND
Chlorpyrifos	41 - 2724	ND	Paclobutrazol	47 - 2697	ND
Clofentezine	275 - 2716	ND	Permethrin	284 - 2728	ND
Diazinon	291 - 2673	ND	Phosmet	45 - 2670	ND
Dichlorvos	336 - 2722	ND	Prophos	306 - 2666	ND
Dimethoate	44 - 2763	ND	Propoxur	44 - 2699	ND
E-Fenpyroximate	278 - 2759	ND	Pyridaben	284 - 2750	ND
Etofenprox	45 - 2697	ND	Spinosad A	36 - 2032	ND
Etoxazole	278 - 2760	ND	Spinosad D	63 - 670	ND
Fenoxycarb	17 - 2699	ND	Spiromesifen	262 - 2730	ND
Fipronil	49 - 2700	ND	Spirotetramat	295 - 2684	ND
Flonicamid	48 - 2802	ND	Spiroxamine 1	18 - 1176	ND
Fludioxonil	294 - 2624	ND	Spiroxamine 2	24 - 1486	ND
Hexythiazox	39 - 2728	ND	Tebuconazole	300 - 2719	ND
Imazalil	267 - 2714	ND	Thiacloprid	44 - 2772	ND
Imidacloprid	45 - 2904	ND	Thiamethoxam	43 - 2849	ND
Kresoxim-methyl	45 - 2652	ND	Trifloxystrobin	45 - 2697	ND

Final Approval

Karen Winternheimer
25Oct2023
08:59:00 AM MDT
PREPARED BY / DATE

Sam Smith
25Oct2023
09:02:00 AM MDT
APPROVED BY / DATE

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Residual Solvents

Test ID: T000259745
Methods: TM04 (GC-MS): Residual Solvents

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Propane	76 - 1517	ND	
Butanes (Isobutane, n-Butane)	149 - 2982	ND	
Methanol	56 - 1111	ND	
Pentane	83 - 1654	ND	
Ethanol	89 - 1772	ND	
Acetone	89 - 1776	ND	
Isopropyl Alcohol	96 - 1916	ND	
Hexane	5 - 108	ND	
Ethyl Acetate	91 - 1830	ND	
Benzene	0.2 - 3.6	ND	
Heptanes	86 - 1727	ND	
Toluene	16 - 327	ND	
Xylenes (m,p,o-Xylenes)	119 - 2390	ND	

Final Approval

Karen Winternheimer
25Oct2023
12:13:00 PM MDT
PREPARED BY / DATE

Sam Smith
25Oct2023
12:18:00 PM MDT
APPROVED BY / DATE

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Microbial Contaminants

Test ID: T000259743
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

Eden Thompson-Wright
26Oct2023
10:01:00 AM MDT
PREPARED BY / DATE

Brett Hudson
26Oct2023
11:30:00 AM MDT
APPROVED BY / DATE

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Cannabinoids

Test ID: T000259741
Methods: TM14 (HPLC-DAD)

	LOD (mg)	**LOQ** (mg)	**Result** (mg)	**Result** (mg/g)	**Notes**
Cannabichromene (CBC)	0.287	0.982	ND	ND	# of Servings = 1, Sample Weight=4g
Cannabichromenic Acid (CBCA)	0.263	0.898	ND	ND	
Cannabidiol (CBD)	1.159	2.761	ND	ND	
Cannabidiolic Acid (CBDA)	1.189	2.832	ND	ND	
Cannabidivarin (CBDV)	0.274	0.653	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.496	1.181	ND	ND	
Cannabigerol (CBG)	0.163	0.558	ND	ND	
Cannabigerolic Acid (CBGA)	0.682	2.331	ND	ND	
Cannabinol (CBN)	0.213	0.727	ND	ND	
Cannabinolic Acid (CBNA)	0.465	1.590	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.812	2.777	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.738	2.522	5.020	1.30	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.654	2.235	ND	ND	
Tetrahydrocannabivarin (THCV)	0.148	0.507	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.577	1.971	ND	ND	
Total Cannabinoids			**5.020**	**1.30**	
Total Potential THC			5.020	1.30	
Total Potential CBD			ND	ND	

Final Approval


Karen Winternheimer
26Oct2023
01:42:00 PM MDT
PREPARED BY / DATE


Sam Smith
26Oct2023
01:43:00 PM MDT
APPROVED BY / DATE

Heavy Metals

Test ID: T000259744
Methods: TM19 (ICP-MS): Heavy Metals

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Arsenic	0.05 - 4.50	ND	
Cadmium	0.04 - 4.45	ND	
Mercury	0.05 - 4.52	ND	
Lead	0.04 - 4.45	ND	

Final Approval


Sam Smith
27Oct2023
03:11:00 PM MDT
PREPARED BY / DATE


Karen Winternheimer
27Oct2023
03:14:00 PM MDT
APPROVED BY / DATE

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https://results.botanacor.com/api/v1/coas/uuid/ff0174d6-5791-49f9-9d62-76ee31304858

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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