SC Labs®
Formerly Botanacor Labs

CERTIFICATE OF ANALYSIS

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

Mixed Berry

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 1 of 5
MB.D9.080323.B	Various	Unit	
Reported:	Started:	Received:	
09Aug2023	09Aug2023	08Aug2023	

Cannabinoids

Test ID: T000252024
Methods: TM14 (HPLC-DAD)

	LOD (mg)	**LOQ** (mg)	**Result** (mg)	**Result** (mg/g)	**Notes**
Cannabichromene (CBC)	0.295	0.986	ND	ND	# of Servings = 1, Sample Weight=4g
Cannabichromenic Acid (CBCA)	0.270	0.902	ND	ND	
Cannabidiol (CBD)	0.966	2.613	ND	ND	
Cannabidiolic Acid (CBDA)	0.991	2.680	ND	ND	
Cannabidivarin (CBDV)	0.228	0.618	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.413	1.118	ND	ND	
Cannabigerol (CBG)	0.168	0.560	ND	ND	
Cannabigerolic Acid (CBGA)	0.700	2.340	ND	ND	
Cannabinol (CBN)	0.219	0.730	ND	ND	
Cannabinolic Acid (CBNA)	0.478	1.596	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.834	2.787	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.758	2.531	5.130	1.30	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.671	2.243	ND	ND	
Tetrahydrocannabivarin (THCV)	0.152	0.509	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.592	1.978	ND	ND	
Total Cannabinoids			**5.130**	**1.30**	
Total Potential THC			5.130	1.30	
Total Potential CBD			ND	ND	

Final Approval

Sam Smith
09Aug2023
02:39:00 PM MDT
PREPARED BY / DATE

Karen Winternheimer
09Aug2023
02:47:00 PM MDT
APPROVED BY / DATE

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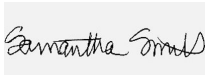
Pesticides

Test ID: T000252025
Methods: TM17

(LC-QQ LC MS/MS)	**Dynamic Range** (ppb)	**Result** (ppb)		**Dynamic Range** (ppb)	**Result** (ppb)
Abamectin	359 - 2672	ND	Malathion	280 - 2745	ND
Acephate	42 - 2738	ND	Metalaxyl	39 - 2748	ND
Acetamiprid	40 - 2717	ND	Methiocarb	42 - 2682	ND
Azoxystrobin	41 - 2742	ND	Methomyl	40 - 2756	ND
Bifenazate	37 - 2749	ND	MGK 264 1	183 - 1683	ND
Boscalid	42 - 2706	ND	MGK 264 2	116 - 1071	ND
Carbaryl	38 - 2730	ND	Myclobutanil	26 - 2717	ND
Carbofuran	39 - 2713	ND	Naled	44 - 2783	ND
Chlorantraniliprole	37 - 2700	ND	Oxamyl	42 - 2744	ND
Chlorpyrifos	44 - 2773	ND	Paclobutrazol	40 - 2738	ND
Clofentezine	282 - 2718	ND	Permethrin	282 - 2786	ND
Diazinon	281 - 2755	ND	Phosmet	38 - 2733	ND
Dichlorvos	284 - 2779	ND	Prophos	302 - 2688	ND
Dimethoate	39 - 2701	ND	Propoxur	40 - 2711	ND
E-Fenpyroximate	285 - 2744	ND	Pyridaben	298 - 2729	ND
Etofenprox	41 - 2702	ND	Spinosad A	29 - 2102	ND
Etoxazole	300 - 2723	ND	Spinosad D	65 - 670	ND
Fenoxycarb	40 - 2752	ND	Spiromesifen	273 - 2741	ND
Fipronil	25 - 2763	ND	Spirotetramat	267 - 2765	ND
Flonicamid	51 - 2752	ND	Spiroxamine 1	17 - 1206	ND
Fludioxonil	268 - 2721	ND	Spiroxamine 2	21 - 1493	ND
Hexythiazox	38 - 2724	ND	Tebuconazole	275 - 2736	ND
Imazalil	278 - 2796	ND	Thiacloprid	41 - 2726	ND
Imidacloprid	39 - 2775	ND	Thiamethoxam	41 - 2759	ND
Kresoxim-methyl	38 - 2784	ND	Trifloxystrobin	42 - 2710	ND

Final Approval

Karen Winternheimer
10Aug2023
11:53:00 AM MDT
PREPARED BY / DATE



Sam Smith
10Aug2023
12:34:00 PM MDT
APPROVED BY / DATE

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Residual Solvents

Test ID: T000252028
Methods: TM04 (GC-MS): Residual Solvents

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Propane	91 - 1829	ND	
Butanes (Isobutane, n-Butane)	184 - 3685	ND	
Methanol	57 - 1137	ND	
Pentane	93 - 1860	ND	
Ethanol	92 - 1842	ND	
Acetone	92 - 1849	ND	
Isopropyl Alcohol	95 - 1905	ND	
Hexane	6 - 112	ND	
Ethyl Acetate	95 - 1893	ND	
Benzene	0.2 - 3.8	ND	
Heptanes	96 - 1912	ND	
Toluene	17 - 335	ND	
Xylenes (m,p,o-Xylenes)	124 - 2477	ND	

Final Approval


Karen Winternheimer
10Aug2023
01:08:00 PM MDT
PREPARED BY / DATE


Sam Smith
10Aug2023
01:10:00 PM MDT
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Microbial Contaminants

Test ID: T000252026
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

Brianne Maillot
11Aug2023
09:22:00 AM MDT
PREPARED BY / DATE

Eden Thompson-Wright
11Aug2023
09:51:00 AM MDT
APPROVED BY / DATE

Heavy Metals

Test ID: T000252027
Methods: TM19 (ICP-MS): Heavy Metals

	Dynamic Range (ppm)	**Result** (ppm)	Notes
Arsenic	0.05 - 4.58	ND	
Cadmium	0.06 - 5.74	ND	
Mercury	0.05 - 4.57	ND	
Lead	0.06 - 5.56	ND	

Final Approval

Sam Smith
14Aug2023
10:15:00 AM MDT
PREPARED BY / DATE

Karen Winternheimer
14Aug2023
10:16:00 AM MDT
APPROVED BY / DATE

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https://results.botanacor.com/api/v1/coas/uuid/70a17de5-5848-4cfe-83fc-8ee4c5aeee1c

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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