

Prepared for:

SUPERIOR MOLECULAR LLC

4459 WHITE BEAR PKWY

WHITE BEAR LAKE, MN USA 55110

56 Acre Hibiscus Berry 10/30/23

Batch ID or Lot Number: HB.D9.103023	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 1 of 5
Reported: 06Nov2023	Started: 01Nov2023	Received: 01Nov2023	

Microbial Contaminants

Test ID: T000260647

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
<i>Salmonella</i>	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
 05Nov2023
 12:59:00 PM MST
 PREPARED BY / DATE


 Eden Thompson-Wright
 06Nov2023
 10:31:00 AM MST
 APPROVED BY / DATE

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Residual Solvents


Test ID: T000260649

Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	86 - 1713	ND	
Butanes (Isobutane, n-Butane)	160 - 3190	ND	
Methanol	54 - 1078	ND	
Pentane	85 - 1690	ND	
Ethanol	89 - 1773	ND	
Acetone	86 - 1713	ND	
Isopropyl Alcohol	91 - 1816	ND	
Hexane	5 - 105	ND	
Ethyl Acetate	88 - 1764	ND	
Benzene	0.2 - 3.4	ND	
Heptanes	85 - 1690	ND	
Toluene	16 - 310	ND	
Xylenes (m,p,o-Xylenes)	113 - 2260	ND	

Final Approval


Karen Winternheimer
12Nov2023
10:48:00 AM MST
PREPARED BY / DATE


Sam Smith
12Nov2023
10:59:00 AM MST
APPROVED BY / DATE

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Cannabinoids


Test ID: T000260645

Methods: TM14 (HPLC-DAD)

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.309	0.979	ND	ND	# of Servings = 1, Sample Weight=4g
Cannabichromenic Acid (CBCA)	0.283	0.896	ND	ND	
Cannabidiol (CBD)	0.987	2.677	ND	ND	
Cannabidiolic Acid (CBDA)	1.012	2.745	ND	ND	
Cannabidivarin (CBDV)	0.233	0.633	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.422	1.145	ND	ND	
Cannabigerol (CBG)	0.176	0.556	<LOQ	<LOQ	
Cannabigerolic Acid (CBGA)	0.734	2.325	ND	ND	
Cannabinol (CBN)	0.229	0.725	ND	ND	
Cannabinolic Acid (CBNA)	0.501	1.586	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.875	2.769	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.794	2.515	5.640	1.40	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.704	2.228	ND	ND	
Tetrahydrocannabivarin (THCV)	0.160	0.506	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.621	1.966	ND	ND	
Total Cannabinoids			5.640	1.40	
Total Potential THC			5.640	1.40	
Total Potential CBD			ND	ND	

Final Approval


 Karen Winternheimer
 12Nov2023
 09:26:00 AM MST
 PREPARED BY / DATE


 Sam Smith
 12Nov2023
 09:33:00 AM MST
 APPROVED BY / DATE

Prepared for:
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Pesticides


Test ID: T000260646

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	320 - 2657	ND		Malathion	291 - 2732	ND
Acephate	40 - 2714	ND		Metalaxyl	40 - 2717	ND
Acetamiprid	42 - 2674	ND		Methiocarb	42 - 2689	ND
Azoxystrobin	44 - 2736	ND		Methomyl	40 - 2733	ND
Bifenazate	40 - 2717	ND		MGK 264 1	152 - 1642	ND
Boscalid	39 - 2668	ND		MGK 264 2	107 - 1082	ND
Carbaryl	40 - 2700	ND		Myclobutanil	66 - 2662	ND
Carbofuran	46 - 2701	ND		Naled	48 - 2655	ND
Chlorantraniliprole	44 - 2691	ND		Oxamyl	41 - 2730	ND
Chlorpyrifos	43 - 2693	ND		Paclobutrazol	40 - 2694	ND
Clofentezine	291 - 2692	ND		Permethrin	286 - 2771	ND
Diazinon	289 - 2731	ND		Phosmet	42 - 2611	ND
Dichlorvos	290 - 2635	ND		Prophos	262 - 2694	ND
Dimethoate	41 - 2692	ND		Propoxur	45 - 2660	ND
E-Fenpyroximate	282 - 2759	ND		Pyridaben	286 - 2751	ND
Etofenprox	45 - 2729	ND		Spinosad A	32 - 2077	ND
Etoxazole	284 - 2668	ND		Spinosad D	68 - 682	ND
Fenoxycarb	45 - 2740	ND		Spiromesifen	285 - 2744	ND
Fipronil	52 - 2898	ND		Spirotetramat	283 - 2778	ND
Flonicamid	45 - 2724	ND		Spiroxamine 1	15 - 1008	ND
Fludioxonil	266 - 2671	ND		Spiroxamine 2	23 - 1592	ND
Hexythiazox	42 - 2775	ND		Tebuconazole	288 - 2759	ND
Imazalil	278 - 2740	ND		Thiacloprid	42 - 2695	ND
Imidacloprid	38 - 2748	ND		Thiamethoxam	43 - 2737	ND
Kresoxim-methyl	44 - 2717	ND		Trifloxystrobin	46 - 2716	ND

Final Approval


 Karen Winternheimer
 16Nov2023
 10:22:00 AM MST
 PREPARED BY / DATE


 Sam Smith
 16Nov2023
 10:26:00 AM MST
 APPROVED BY / DATE

Prepared for:

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Heavy Metals

Test ID: T000260648


Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.65	ND	
Cadmium	0.05 - 5.03	ND	
Mercury	0.05 - 4.80	ND	
Lead	0.05 - 4.66	ND	

Final Approval


Samantha Smith
17Nov2023
07:29:00 AM MST

PREPARED BY / DATE


Karen Winternheimer
17Nov2023
07:31:00 AM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/09cddfee-9af9-4445-b2aa-d947ac774964>

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.

Testing results are based solely upon the sample submitted to SC Laboratories, Inc., in the condition it was received. SC Laboratories, Inc., warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of SC Laboratories, Inc. ISO/IEC 17025:2017 A2LA Cert #: 4329.02 Chemical; 4329.03 Biological. Some tests listed on this COA may not be within our scope of A2LA accreditation. Please visit [A2LA for more details](#).



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