

Prepared for:

SUPERIOR MOLECULAR LLC

4459 WHITE BEAR PKWY

WHITE BEAR LAKE, MN USA 55110

Bent Paddle Berry Stash 12/13/2023

Batch ID or Lot Number: BS.D9CBD.121323	Test, Test ID and Methods: Various	Matrix: Unit	Page 1 of 4
Reported: 22Dec2023	Started: 21Dec2023	Received: 20Dec2023	


Cannabinoids

Test ID: T000265478


Methods: TM14 (HPLC-DAD)

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.281	0.944	ND	ND	# of Servings = 1, Sample Weight=4g
Cannabichromenic Acid (CBCA)	0.257	0.863	ND	ND	
Cannabidiol (CBD)	0.795	2.365	4.980	1.20	
Cannabidiolic Acid (CBDA)	0.815	2.425	ND	ND	
Cannabidivarin (CBDV)	0.188	0.559	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.340	1.012	ND	ND	
Cannabigerol (CBG)	0.160	0.536	<LOQ	<LOQ	
Cannabigerolic Acid (CBGA)	0.668	2.240	ND	ND	
Cannabinol (CBN)	0.208	0.699	ND	ND	
Cannabinolic Acid (CBNA)	0.456	1.528	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.796	2.668	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.723	2.423	5.380	1.30	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.640	2.147	ND	ND	
Tetrahydrocannabivarin (THCV)	0.145	0.487	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.565	1.894	ND	ND	
Total Cannabinoids			10.360	2.50	
Total Potential THC			5.380	1.30	
Total Potential CBD			4.980	1.20	

Final Approval


Sam Smith
22Dec2023
09:08:00 AM MST

PREPARED BY / DATE


Karen Winternheimer
22Dec2023
09:18:00 AM MST

APPROVED BY / DATE

Prepared for:

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Pesticides


Test ID: T000265479

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

Prepared for:

SUPERIOR MOLECULAR LLC

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Residual Solvents


Test ID: T000265482

Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	89 - 1784	ND	
Butanes (Isobutane, n-Butane)	175 - 3510	ND	
Methanol	62 - 1232	ND	
Pentane	96 - 1913	ND	
Ethanol	98 - 1955	ND	
Acetone	100 - 2005	ND	
Isopropyl Alcohol	108 - 2158	ND	
Hexane	6 - 121	ND	
Ethyl Acetate	103 - 2057	ND	
Benzene	0.2 - 4.0	ND	
Heptanes	98 - 1957	ND	
Toluene	18 - 366	ND	
Xylenes (m,p,o-Xylenes)	135 - 2700	ND	

Final Approval


Karen Winterheimer
26Dec2023
10:26:00 AM MST
PREPARED BY / DATE


Sam Smith
26Dec2023
10:35:00 AM MST
APPROVED BY / DATE


Heavy Metals


Test ID: T000265481

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.16	ND	
Cadmium	0.04 - 4.18	ND	
Mercury	0.04 - 4.47	ND	
Lead	0.04 - 4.24	ND	

Final Approval


Colin Hendrickson
26Dec2023
11:32:00 AM MST
PREPARED BY / DATE


Sam Smith
26Dec2023
11:36:00 AM MST
APPROVED BY / DATE

Prepared for:
SUPERIOR MOLECULAR LLC

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Microbial Contaminants

Test ID: T000265480

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



Brett Hudson
29Dec2023
11:36:00 AM MST



Brianne Maillot
29Dec2023
01:02:00 PM MST

PREPARED BY / DATE

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/f1d3a0aa-3a41-44b4-b245-5969a3748513>

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](#).



Cert #4329.02

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