

Prepared for:

SUPERIOR MOLECULAR LLC

4459 WHITE BEAR PKWY

WHITE BEAR LAKE, MN USA 55110

Cinn.Map.100722

Batch ID or Lot Number: Cinn.Map.100722	Test, Test ID and Methods: Various	Matrix: Unit	Page 1 of 5
Reported: 11Oct2022	Started: 10Oct2022	Received: 10Oct2022	


Cannabinoids

Test ID: T000224112


Methods: TM14 (HPLC-DAD)

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.032	0.112	ND	ND	# of Servings = 1, Sample Weight=2g
Cannabichromenic Acid (CBCA)	0.029	0.103	ND	ND	
Cannabidiol (CBD)	0.097	0.290	ND	ND	
Cannabidiolic Acid (CBDA)	0.099	0.298	ND	ND	
Cannabidivarin (CBDV)	0.023	0.069	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.041	0.124	ND	ND	
Cannabigerol (CBG)	0.018	0.064	ND	ND	
Cannabigerolic Acid (CBGA)	0.075	0.267	ND	ND	
Cannabinol (CBN)	0.024	0.083	ND	ND	
Cannabinolic Acid (CBNA)	0.051	0.182	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.090	0.318	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.082	0.288	0.890	0.40	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.072	0.256	ND	ND	
Tetrahydrocannabivarin (THCV)	0.016	0.058	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.064	0.225	ND	ND	
Total Cannabinoids			0.890	0.44	
Total Potential THC			0.890	0.44	
Total Potential CBD			ND	ND	

Final Approval


Sam Smith
11Oct2022
01:56:00 PM MDT

PREPARED BY / DATE


Karen Winternheimer
11Oct2022
02:00:00 PM MDT

APPROVED BY / DATE

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Residual Solvents


Test ID: T000224115

Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	99 - 1979	ND	
Butanes (Isobutane, n-Butane)	203 - 4068	ND	
Methanol	59 - 1174	ND	
Pentane	103 - 2065	ND	
Ethanol	87 - 1749	ND	
Acetone	98 - 1953	ND	
Isopropyl Alcohol	86 - 1728	ND	
Hexane	6 - 124	ND	
Ethyl Acetate	96 - 1919	ND	
Benzene	0.2 - 3.8	ND	
Heptanes	101 - 2015	ND	
Toluene	15 - 305	ND	
Xylenes (m,p,o-Xylenes)	100 - 2010	ND	

Final Approval


Karen Winternheimer
13Oct2022
07:11:00 PM MDT
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Sam Smith
13Oct2022
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Pesticides


Test ID: T000224113

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	336 - 2809	ND		Malathion	285 - 2713	ND
Acephate	43 - 2703	ND		Metalaxyl	40 - 2727	ND
Acetamiprid	40 - 2687	ND		Methiocarb	42 - 2749	ND
Azoxystrobin	41 - 2723	ND		Methomyl	42 - 2695	ND
Bifenazate	41 - 2706	ND		MGK 264 1	166 - 1608	ND
Boscalid	35 - 2770	ND		MGK 264 2	114 - 1138	ND
Carbaryl	40 - 2712	ND		Myclobutanil	48 - 2767	ND
Carbofuran	42 - 2712	ND		Naled	44 - 2779	ND
Chlorantraniliprole	43 - 2769	ND		Oxamyl	41 - 2689	ND
Chlorpyrifos	43 - 2788	ND		Paclobutrazol	41 - 2720	ND
Clofentezine	276 - 2752	ND		Permethrin	24 - 2686	ND
Diazinon	271 - 2719	ND		Phosmet	41 - 2716	ND
Dichlorvos	278 - 2710	ND		Prophos	299 - 2767	ND
Dimethoate	42 - 2686	ND		Propoxur	39 - 2727	ND
E-Fenpyroximate	284 - 2744	ND		Pyridaben	262 - 2738	ND
Etofenprox	40 - 2750	ND		Spinosad A	33 - 2252	ND
Etoxazole	291 - 2729	ND		Spinosad D	49 - 502	ND
Fenoxycarb	41 - 2712	ND		Spiromesifen	289 - 2726	ND
Fipronil	34 - 2789	ND		Spirotetramat	268 - 2728	ND
Flonicamid	45 - 2683	ND		Spiroxamine 1	16 - 1182	ND
Fludioxonil	289 - 2744	ND		Spiroxamine 2	23 - 1592	ND
Hexythiazox	38 - 2747	ND		Tebuconazole	274 - 2744	ND
Imazalil	266 - 2779	ND		Thiacloprid	41 - 2692	ND
Imidacloprid	47 - 2700	ND		Thiamethoxam	42 - 2663	ND
Kresoxim-methyl	38 - 2758	ND		Trifloxystrobin	43 - 2731	ND

Final Approval


 Karen Winternheimer
 17Oct2022
 02:09:00 PM MDT
 PREPARED BY / DATE


 Sam Smith
 17Oct2022
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Prepared for:
SUPERIOR MOLECULAR LLC

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Mycotoxins


Test ID: T000224116


Methods: TM18 (UHPLC-QQQ)

LCMS/MS: Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	1.41 - 129.58	ND	N/A
Aflatoxin B1	0.93 - 33.00	ND	
Aflatoxin B2	2.51 - 32.48	ND	
Aflatoxin G1	1.06 - 32.71	ND	
Aflatoxin G2	1.29 - 32.58	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval


Sam Smith
21Oct2022
10:29:00 AM MDT
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Karen Winternheimer
21Oct2022
10:31:00 AM MDT
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Heavy Metals

Test ID: T000224114

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.19	ND	
Cadmium	0.04 - 4.28	ND	
Mercury	0.04 - 3.79	ND	
Lead	0.04 - 4.13	ND	

Final Approval


Sam Smith
25Oct2022
08:37:00 AM MDT
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Karen Winternheimer
25Oct2022
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Prepared for:

SUPERIOR MOLECULAR LLC

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<https://results.botanacor.com/api/v1/coas/uuid/d237a294-fc6f-4a10-9e0a-3073f90d5a5a>

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 Accredited by A2LA. 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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