

Prepared for:

SUPERIOR MOLECULAR LLC

4459 WHITE BEAR PKWY

WHITE BEAR LAKE, MN USA 55110

Surly Sour Lime 10/17/23

Batch ID or Lot Number: SL.D9.101723	Test, Test ID and Methods: Various	Matrix: Unit	Page 1 of 5
Reported: 20Oct2023	Started: 19Oct2023	Received: 19Oct2023	


Cannabinoids


Test ID: T000259376

Methods: TM14 (HPLC-DAD)

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.279	0.939	ND	ND	# of Servings = 1, Sample Weight=4g
Cannabichromenic Acid (CBCA)	0.255	0.859	ND	ND	
Cannabidiol (CBD)	1.053	2.512	ND	ND	
Cannabidiolic Acid (CBDA)	1.080	2.577	ND	ND	
Cannabidivarin (CBDV)	0.249	0.594	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.450	1.075	ND	ND	
Cannabigerol (CBG)	0.158	0.533	ND	ND	
Cannabigerolic Acid (CBGA)	0.662	2.229	ND	ND	
Cannabinol (CBN)	0.207	0.696	ND	ND	
Cannabinolic Acid (CBNA)	0.452	1.521	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.789	2.656	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.717	2.412	4.860	1.20	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.635	2.137	ND	ND	
Tetrahydrocannabivarin (THCV)	0.144	0.485	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.560	1.885	ND	ND	
Total Cannabinoids			4.860	1.20	
Total Potential THC			4.860	1.20	
Total Potential CBD			ND	ND	

Final Approval


 Karen Winternheimer
 20Oct2023
 02:23:00 PM MDT
 PREPARED BY / DATE


 Sam Smith
 20Oct2023
 02:26:00 PM MDT
 APPROVED BY / DATE

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Microbial Contaminants

Test ID: T000259378

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



Eden Thompson-Wright
23Oct2023
09:58:00 AM MDT

PREPARED BY / DATE



Brett Hudson
23Oct2023
12:50:00 PM MDT

APPROVED BY / DATE

Prepared for:

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Residual Solvents


Test ID: T000259380

Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	98 - 1951	ND	
Butanes (Isobutane, n-Butane)	193 - 3852	ND	
Methanol	67 - 1331	ND	
Pentane	99 - 1981	ND	
Ethanol	106 - 2123	ND	
Acetone	106 - 2127	ND	
Isopropyl Alcohol	115 - 2295	ND	
Hexane	6 - 129	ND	
Ethyl Acetate	110 - 2192	ND	
Benzene	0.2 - 4.3	ND	
Heptanes	103 - 2069	ND	
Toluene	20 - 391	ND	
Xylenes (m,p,o-Xylenes)	143 - 2863	ND	

Final Approval


Karen Winternheimer
24Oct2023
03:46:00 PM MDT
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Sam Smith
24Oct2023
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Prepared for:

SUPERIOR MOLECULAR LLC

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Pesticides


Test ID: T000259377

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

Prepared for:

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Heavy Metals

Test ID: T000259379

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.43	ND	
Cadmium	0.05 - 4.55	ND	
Mercury	0.05 - 4.67	ND	
Lead	0.05 - 4.64	ND	

Final Approval


Samantha Smith
25Oct2023
01:58:00 PM MDT
PREPARED BY / DATE


Karen Winternheimer
25Oct2023
02:05:00 PM MDT
APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/2e56f34e-3e44-4fb4-a70a-724b342639a1>

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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