

Prepared for:  
**Oliphant Brewing LLC**  
350 Main St, Ste 2  
Somerset, WI USA 54025


## Extinct 120423


Batch ID or Lot Number: <b>120423</b>	Test: <b>Potency</b>	Reported: <b>22Dec2023</b>	USDA License: N/A
Matrix: Unit	Test ID: T000264782	Started: 21Dec2023	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD)	Received: 20Dec2023	Status: N/A

## Cannabinoids

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.161	0.541	ND	ND	# of Servings = 1, Sample Weight=385g
Cannabichromenic Acid (CBCA)	0.148	0.495	ND	ND	
Cannabidiol (CBD)	0.456	1.356	ND	ND	
Cannabidiolic Acid (CBDA)	0.468	1.391	ND	ND	
Cannabidivarin (CBDV)	0.108	0.321	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.195	0.580	ND	ND	
Cannabigerol (CBG)	0.092	0.307	1.150	0.00	
Cannabigerolic Acid (CBGA)	0.383	1.284	ND	ND	
Cannabinol (CBN)	0.120	0.401	0.940	0.00	
Cannabinolic Acid (CBNA)	0.261	0.876	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.456	1.530	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.414	1.390	27.320	0.10	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.367	1.231	ND	ND	
Tetrahydrocannabivarin (THCV)	0.083	0.279	0.280	0.00	
Tetrahydrocannabivarinic Acid (THCVA)	0.324	1.086	ND	ND	
<b>Total Cannabinoids</b>			<b>29.690</b>	<b>0.10</b>	
Total Potential THC			27.320	0.10	
Total Potential CBD			ND	ND	

## Final Approval

  
PREPARED BY / DATE  
Sam Smith  
22Dec2023  
09:08:00 AM MST

  
APPROVED BY / DATE  
Karen Winternheimer  
22Dec2023  
09:18:00 AM MST



<https://results.botanacor.com/api/v1/coas/uuid/883e58a2-9b3d-4362-af49-c731c65cb4aa>

**Definitions**  
% = % (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)).

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.



883e58a29b3d4362af49c731c65cb4aa.1

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

## Water Soluble D9/CBD


Batch ID or Lot Number: <b>WS.D9CBD.11272023</b>	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 1 of 3
Reported: <b>30Nov2023</b>	Started: 29Nov2023	Received: 28Nov2023	


## Residual Solvents

Test ID: T000263144  
Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	96 - 1917	ND	
Butanes (Isobutane, n-Butane)	188 - 3765	ND	
Methanol	70 - 1398	ND	
Pentane	103 - 2059	ND	
Ethanol	110 - 2207	ND	
Acetone	108 - 2162	ND	
Isopropyl Alcohol	116 - 2325	ND	
Hexane	7 - 133	ND	
Ethyl Acetate	112 - 2240	ND	
Benzene	0.2 - 4.4	ND	
Heptanes	107 - 2140	ND	
Toluene	20 - 404	ND	
Xylenes (m,p,o-Xylenes)	147 - 2945	ND	

### Final Approval

  
Karen Winternheimer  
30Nov2023  
12:48:00 PM MST  
PREPARED BY / DATE


  
Sam Smith  
30Nov2023  
12:50:00 PM MST  
APPROVED BY / DATE


## Heavy Metals

Test ID: T000263143  
Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.32	ND	
Cadmium	0.04 - 4.28	ND	
Mercury	0.04 - 4.24	ND	
Lead	0.04 - 4.34	ND	

### Final Approval

  
Sam Smith  
30Nov2023  
07:58:00 AM MST  
PREPARED BY / DATE

  
Karen Winternheimer  
30Nov2023  
08:00:00 AM MST  
APPROVED BY / DATE

Prepared for:

**SUPERIOR MOLECULAR LLC**

4459 WHITE BEAR PKWY

WHITE BEAR LAKE, MN USA 55110

## Water Soluble D9/CBD

Batch ID or Lot Number: <b>WS.D9CBD.11272023</b>	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 2 of 3
Reported: <b>30Nov2023</b>	Started: 29Nov2023	Received: 28Nov2023	

## Pesticides


Test ID: T000263141


Methods: TM17

(LC-QQ LC MS/MS)

	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)
Abamectin	385 - 3277	ND	Malathion	280 - 2762	ND
Acephate	43 - 2767	ND	Metalaxyl	46 - 2743	ND
Acetamiprid	42 - 2720	ND	Methiocarb	47 - 2707	ND
Azoxystrobin	44 - 2764	ND	Methomyl	44 - 2802	ND
Bifenazate	44 - 2711	ND	MGK 264 1	164 - 1610	ND
Boscalid	41 - 2623	ND	MGK 264 2	113 - 1089	ND
Carbaryl	43 - 2708	ND	Myclobutanil	17 - 2632	ND
Carbofuran	44 - 2682	ND	Naled	46 - 2642	ND
Chlorantraniliprole	50 - 2579	ND	Oxamyl	43 - 2793	ND
Chlorpyrifos	50 - 2781	ND	Paclobutrazol	48 - 2595	ND
Clofentezine	283 - 2691	ND	Permethrin	260 - 2759	ND
Diazinon	289 - 2727	ND	Phosmet	43 - 2585	ND
Dichlorvos	283 - 2752	ND	Prophos	303 - 2679	ND
Dimethoate	43 - 2726	ND	Propoxur	45 - 2707	ND
E-Fenpyroximate	286 - 2761	ND	Pyridaben	298 - 2830	ND
Etofenprox	43 - 2781	ND	Spinosad A	32 - 2128	ND
Etoxazole	287 - 2702	ND	Spinosad D	65 - 685	ND
Fenoxycarb	30 - 2714	ND	Spiromesifen	273 - 2747	ND
Fipronil	49 - 2636	ND	Spirotetramat	267 - 2754	ND
Flonicamid	43 - 2740	ND	Spiroxamine 1	16 - 1027	ND
Fludioxonil	315 - 2625	ND	Spiroxamine 2	28 - 1553	ND
Hexythiazox	42 - 2753	ND	Tebuconazole	286 - 2594	ND
Imazalil	263 - 2804	ND	Thiacloprid	43 - 2746	ND
Imidacloprid	43 - 2776	ND	Thiamethoxam	40 - 2752	ND
Kresoxim-methyl	45 - 2761	ND	Trifloxystrobin	46 - 2738	ND

## Final Approval

 Karen Winternheimer  
01Dec2023  
09:36:00 AM MST  
PREPARED BY / DATE

 Sam Smith  
01Dec2023  
09:42:00 AM MST  
APPROVED BY / DATE

Prepared for:

**SUPERIOR MOLECULAR LLC**

4459 WHITE BEAR PKWY

WHITE BEAR LAKE, MN USA 55110

## Water Soluble D9/CBD

Batch ID or Lot Number: <b>WS.D9CBD.11272023</b>	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 3 of 3
Reported: <b>30Nov2023</b>	Started: 29Nov2023	Received: 28Nov2023	

## Microbial Contaminants

Test ID: T000263142

Methods: TM25 (PCR) TM24, TM26, TM27 (Culture Plating)

	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 <sup>0</sup> CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
<i>Salmonella</i>	TM25: PCR	10 <sup>0</sup> CFU/25g	NA	Absent	
Total Yeast and Mold*	TM24: Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup>	None Detected	
Total Aerobic Count*	TM26: Culture Plating	10 <sup>2</sup> CFU/g	1.0x10 <sup>3</sup> - 1.5x10 <sup>5</sup>	None Detected	
Total Coliforms*	TM27: Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup>	None Detected	

## Final Approval



Eden Thompson-Wright  
01Dec2023  
03:12:00 PM MST



Brett Hudson  
01Dec2023  
04:29:00 PM MST

PREPARED BY / DATE

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/a1e52edf-ab65-4bf3-ac18-d80cd25fd758>

## 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<sup>2</sup> = 100 CFU, 10<sup>3</sup> = 1,000 CFU, 10<sup>4</sup> = 10,000 CFU, 10<sup>5</sup> = 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  
a1e52edfab654bf3ac18d80cd25fd758.1