

Prepared for: **Oliphant Brewing LLC**

350 Main St, Ste 2 Somerset, WI USA 54025

Ruin # 042524

Batch ID or Lot Number:	Test:	Reported:	USDA License:	
042524	Potency	03May2024	N/A	
Matrix:	Test ID:	Started:	Sampler ID:	
Unit	T000278915	02May2024	N/A	
	Method(s): TM14 (HPLC-DAD)	Received: 30Apr2024	Status: N/A	

Cannabinoids	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.148	0.507	ND	ND	# of Servings = 1,
Cannabichromenic Acid (CBCA)	0.136	0.464	ND	ND	Sample
Cannabidiol (CBD)	0.465	1.367	5.460	0.00	Weight=379g
Cannabidiolic Acid (CBDA)	0.477	1.402	ND	ND	
Cannabidivarin (CBDV)	0.110	0.323	<loq< td=""><td><loq< td=""><td></td></loq<></td></loq<>	<loq< td=""><td></td></loq<>	
Cannabidivarinic Acid (CBDVA)	0.199	0.585	ND	ND	
Cannabigerol (CBG)	0.084	0.288	ND	ND	
Cannabigerolic Acid (CBGA)	0.352	1.203	ND	ND	
Cannabinol (CBN)	0.110	0.375	ND	ND	
Cannabinolic Acid (CBNA)	0.240	0.821	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.419	1.433	<loq< td=""><td><loq< td=""><td></td></loq<></td></loq<>	<loq< td=""><td></td></loq<>	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.381	1.302	10.460	0.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.337	1.153	ND	ND	
Tetrahydrocannabivarin (THCV)	0.077	0.262	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.297	1.017	ND	ND	
Total Cannabinoids			15.920	0.00	
Total Potential THC			10.460	0.00	
Total Potential CBD			5.460	0.00	

Final Approval

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PREPARED BY / DATE

Karen Winternheimer 03May2024 01:23:00 PM MDT

APPROVED BY / DATE

Phillip Travisano 03May2024 01:24:00 PM MDT



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.



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Prepared for:

SUPERIOR MOLECULAR LLC

4459 WHITE BEAR PKWY WHITE BEAR LAKE, MN USA 55110

WS Full Panel March-April (CBC, CBD, D9)

Batch ID or Lot Number:	Test:	Reported:	USDA License:
WS.FP.040824	Heavy Metals	16Apr2024	NA
Matrix:	Test ID:	Started:	Sampler ID:
Finished Product	T000276978	16Apr2024	NA
	Method(s):	Received:	Status:
	TM19 (ICP-MS): Heavy Metals	10Apr2024	NA

Heavy Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.94	ND	
Cadmium	0.05 - 4.64	ND	-
Mercury	0.05 - 4.69	ND	
Lead	0.05 - 4.83	ND	0

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Phillip Travisano 16Apr2024 01:36:00 PM MDT

APPROVED BY / DATE

Karen Winternheimer 16Apr2024 03:53:00 PM MDT



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Definitions ND = None Detected (defined by dynamic range of the method) Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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Prepared for:

SUPERIOR MOLECULAR LLC

4459 WHITE BEAR PKWY WHITE BEAR LAKE, MN USA 55110

WS Full Panel March-April (CBC, CBD, D9)

Test: Microbial Contaminants	Reported:	USDA License: NA
Microbial Contaminants	15Apr2024	NA
Test ID:	Started:	Sampler ID:
T000276977	10Apr2024	NA
Method(s):	Received:	Status:
TM25 (PCR) TM24, TM26, TM27 (Culture Plating)	10Apr2024	NA
Method LOD	Quantitation	ult Notes
	Microbial Contaminants Test ID: T000276977 Method(s): TM25 (PCR) TM24, TM26, TM27	Microbial Contaminants15Apr2024Test ID: T000276977Started: 10Apr2024Method(s): TM25 (PCR) TM24, TM26, TM27 (Culture Plating)Received: 10Apr2024Quantitation

•••••••	Wicthou	LOD	Runge	Result	Notes
STEC	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
Salmonella	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	-

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Brett Hudson 15Apr2024 04:35:00 PM MDT

Brianne Maillot

Brianne Maillot 16Apr2024 06:13:00 PM MDT



Definitions

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* Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form. Examples: $10^2 = 100 \text{ CFU}$, $10^3 = 1,000 \text{ CFU}$, $10^4 = 10,000 \text{ CFU}$, $10^5 = 100,000 \text{ CFU}$

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CFU/g = Colony Forming Units per Gram, LOD = Limit of Detection ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation

STEC = Shiga Toxin-Producing E. coli

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WS Full Panel March-April (CBC, CBD, D9)

CERTIFICATE OF ANALYSIS

Prepared for:

SUPERIOR MOLECULAR LLC

4459 WHITE BEAR PKWY WHITE BEAR LAKE, MN USA 55110

Batch ID or Lot Number:	Test:	Reported:	USDA License:	
WS.FP.040824	Pesticides	24Apr2024	NA	
Matrix:	Test ID:	Started:	Sampler ID:	
Concentrate	T000278077	13Apr2024	NA	
	Method(s):	Received:	Status:	
	TM17 (LC-QQ LC MS/MS)	19Apr2024	NA	

Pesticides	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb
Abamectin	324 - 2730	ND	Malathion	312 - 2753	ND
Acephate	44 - 2772	ND	Metalaxyl	44 - 2747	ND
Acetamiprid	42 - 2701	ND	Methiocarb	45 - 2722	ND
Azoxystrobin	44 - 2758	ND	Methomyl	43 - 2755	ND
Bifenazate	45 - 2748	ND	MGK 264 1	171 - 1628	ND
Boscalid	42 - 2714	ND	MGK 264 2	115 - 1080	ND
Carbaryl	40 - 2735	ND	Myclobutanil	44 - 2722	ND
Carbofuran	42 - 2729	ND	Naled	42 - 2695	ND
Chlorantraniliprole	44 - 2726	ND	Oxamyl	43 - 2751	ND
Chlorpyrifos	48 - 2796	ND	Paclobutrazol	45 - 2748	ND
Clofentezine	270 - 2794	ND	Permethrin	287 - 2854	ND
Diazinon	306 - 2749	ND	Phosmet	43 - 2616	ND
Dichlorvos	287 - 2725	ND	Prophos	295 - 2691	ND
Dimethoate	41 - 2699	ND	Propoxur	43 - 2744	ND
E-Fenpyroximate	283 - 2830	ND	Pyridaben	295 - 2795	ND
Etofenprox	42 - 2778	ND	Spinosad A	31 - 2108	ND
Etoxazole	291 - 2705	ND	Spinosad D	68 - 680	ND
Fenoxycarb	26 - 2883	ND	Spiromesifen	290 - 2782	ND
Fipronil	33 - 2804	ND	Spirotetramat	283 - 2841	ND
Flonicamid	46 - 2781	ND	Spiroxamine 1	17 - 1012	ND
Fludioxonil	287 - 2662	ND	Spiroxamine 2	25 - 1593	ND
Hexythiazox	40 - 2808	ND	Tebuconazole	310 - 2717	ND
Imazalil	284 - 2753	ND	Thiacloprid	43 - 2733	ND
Imidacloprid	47 - 2776	ND	Thiamethoxam	39 - 2776	ND
Kresoxim-methyl	42 - 2806	ND	Trifloxystrobin	45 - 2758	ND

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Karen Winternheimer 24Apr2024 01:05:00 PM MDT

APPROVED BY / DATE

Phillip Travisano 24Apr2024 01:07:00 PM MDT



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Definitions

ND = None Detected (defined by dynamic range of the method) Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range ppb = Parts Per Billion

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Prepared for:

SUPERIOR MOLECULAR LLC

Active

4459 WHITE BEAR PKWY WHITE BEAR LAKE, MN USA 55110

WS Full Panel March-April (CBC, CBD, D9) Batch ID or Lot Number: Test: Reported: USDA License: WS.FP.040824 **Residual Solvents** 17Apr2024 N/A Matrix: Test ID: Started: Sampler ID: T000276979 Concentrate 15Apr2024 N/A Received: Method(s): Status:

10Apr2024

TM04 (GC-MS): Residual Solvents

Residual Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	97 - 1945	ND	
Butanes (Isobutane, n-Butane)	177 - 3548	ND	
Methanol	68 - 1369	ND	
Pentane	102 - 2049	ND	
Ethanol	103 - 2058	ND	
Acetone	113 - 2258	ND	
lsopropyl Alcohol	110 - 2196	ND	
Hexane	7 - 144	ND	
Ethyl Acetate	115 - 2294	ND	
Benzene	0.2 - 4.6	ND	
Heptanes	110 - 2203	ND	
Toluene	19 - 385	ND	
Xylenes (m,p,o-Xylenes)	129 - 2586	ND	

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Karen Winternheimer 16Apr2024 08:46:00 AM MDT

APPROVED BY / DATE

Phillip Travisano 16Apr2024 08:48:00 AM MDT



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