

Prepared for: **Oliphant Brewing LLC**

350 Main St, Ste 2 Somerset, WI USA 54025

Disaster 022724A

Batch ID or Lot Number:	Test:	Reported:	USDA License:	
022724A	Potency	07Mar2024	N/A	
Matrix:	Test ID:	Started:	Sampler ID:	
Unit	T000272658	05Mar2024	N/A	
	Method(s): TM14 (HPLC-DAD)	Received: 04Mar2024	Status: N/A	

Cannabinoids	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.165	0.527	ND	ND	# of Servings = 1,
Cannabichromenic Acid (CBCA)	0.151	0.482	ND	ND	Sample
Cannabidiol (CBD)	0.501	1.405	5.420	0.00	Weight=383g
Cannabidiolic Acid (CBDA)	0.514	1.442	ND	ND	
Cannabidivarin (CBDV)	0.118	0.332	<loq< td=""><td><loq< td=""><td></td></loq<></td></loq<>	<loq< td=""><td></td></loq<>	
Cannabidivarinic Acid (CBDVA)	0.214	0.601	ND	ND	
Cannabigerol (CBG)	0.094	0.299	ND	ND	
Cannabigerolic Acid (CBGA)	0.391	1.251	ND	ND	
Cannabinol (CBN)	0.122	0.390	ND	ND	
Cannabinolic Acid (CBNA)	0.267	0.854	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.466	1.490	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.423	1.354	9.260	0.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.375	1.199	ND	ND	
Tetrahydrocannabivarin (THCV)	0.085	0.272	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.331	1.058	ND	ND	
Total Cannabinoids			14.680	0.00	
Total Potential THC			9.260	0.00	
Total Potential CBD			5.420	0.00	

Final Approval

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PREPARED BY / DATE

Karen Winternheimer 07Mar2024 12:54:00 PM MST

APPROVED BY / DATE

Phillip Travisano 07Mar2024 12:56:00 PM MST



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.





Prepared for:

SUPERIOR MOLECULAR LLC

4459 WHITE BEAR PKWY WHITE BEAR LAKE, MN USA 55110

Full Panel WS Jan-Feb 2024 (CBD, CBN, CBG, D9)

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 1 of 4
FP.WS.020124	Various	Concentrate	
Reported:	Started:	Received:	
05Feb2024	02Feb2024	02Feb2024	

Residual Solvents

Test ID: T000269758			
Methods: TM04 (GC-MS): Residual Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	95 - 1899	ND	
Butanes (Isobutane, n-Butane)	173 - 3467	ND	
Methanol	65 - 1291	ND	
Pentane	94 - 1871	ND	
Ethanol	93 - 1869	ND	
Acetone	103 - 2052	ND	
Isopropyl Alcohol	105 - 2096	ND	
Hexane	6 - 130	ND	
Ethyl Acetate	103 - 2066	ND	
Benzene	0.2 - 4.2	ND	
Heptanes	99 - 1980	ND	
Toluene	18 - 366	ND	
Xylenes (m,p,o-Xylenes)	124 - 2489	ND	

Final Approval

Sam Smith Samantha Smith 05Feb2024 11:41:00 AM MST PREPARED BY / DATE

APPROVED BY / DATE

Karen Winternheimer 05Feb2024 MTEMPEMMEN 11:41:00 AM MST



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SUPERIOR MOLECULAR LLC

4459 WHITE BEAR PKWY WHITE BEAR LAKE, MN USA 55110

Full Panel WS Jan-Feb 2024 (CBD, CBN, CBG,D9)

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Microbial Contaminants

Test ID: T000269756 Methods: TM25 (PCR) TM24, TM26,			Quantitation		
TM27 (Culture Plating)	Method	LOD	Range	Result	Notes
STEC	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	Free from visual mold, mildew, and
Salmonella	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	- foreign matter
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	1.0x10^5 CFU/g	
Total Coliforms*	TM27: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	-
					-

Final Approval

Eden Thempson	Eden Thompson-Wright 05Feb2024 03:03:00 PM MST	Buanne	MailloD	Brianne Maillot 05Feb2024 03:32:00 PM MST
PREPARED BY / DATE		APPROVED	BY / DATE	

Heavy Metals

Test ID: T000269757 Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.69	ND	
Cadmium	0.04 - 4.48	ND	•
Mercury	0.05 - 4.78	ND	
Lead	0.05 - 4.75	ND	

Final Approval

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Samantha Small	06Feb2
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mith 2024 0 PM MST

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Karen Winternheimer 07Feb2024 11:12:00 AM MST

PREPARED BY / DATE

APPROVED BY / DATE



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SUPERIOR MOLECULAR LLC

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FP.WS.020124	Various	Concentrate	
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05Feb2024	02Feb2024	02Feb2024	

Pesticides

Methods: TM17

Test ID: T000269755

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb
Abamectin	322 - 2692	ND	Malathion	300 - 2685	ND
Acephate	40 - 2713	ND	Metalaxyl	43 - 2693	ND
Acetamiprid	42 - 2711	ND	Methiocarb	42 - 2675	ND
Azoxystrobin	46 - 2680	ND	Methomyl	41 - 2765	ND
Bifenazate	43 - 2700	ND	MGK 264 1	145 - 1627	ND
Boscalid	47 - 2707	ND	MGK 264 2	110 - 1097	ND
Carbaryl	42 - 2691	ND	Myclobutanil	50 - 2631	ND
Carbofuran	42 - 2677	ND	Naled	44 - 2668	ND
Chlorantraniliprole	48 - 2651	ND	Oxamyl	41 - 2770	ND
Chlorpyrifos	48 - 2744	ND	Paclobutrazol	45 - 2671	ND
Clofentezine	282 - 2731	ND	Permethrin	300 - 2757	ND
Diazinon	293 - 2717	ND	Phosmet	42 - 2585	ND
Dichlorvos	286 - 2745	ND	Prophos	289 - 2668	ND
Dimethoate	41 - 2702	ND	Propoxur	41 - 2692	ND
E-Fenpyroximate	222 - 2857	ND	Pyridaben	286 - 2731	ND
Etofenprox	44 - 2759	ND	Spinosad A	34 - 2091	ND
Etoxazole	292 - 2664	ND	Spinosad D	67 - 674	ND
Fenoxycarb	41 - 2669	ND	Spiromesifen	273 - 2744	ND
Fipronil	50 - 2773	ND	Spirotetramat	300 - 2772	ND
Flonicamid	41 - 2768	ND	Spiroxamine 1	16 - 1015	ND
Fludioxonil	278 - 2672	ND	Spiroxamine 2	22 - 1572	ND
Hexythiazox	42 - 2774	ND	Tebuconazole	290 - 2684	ND
Imazalil	278 - 2725	ND	Thiacloprid	42 - 2720	ND
Imidacloprid	40 - 2726	ND	Thiamethoxam	42 - 2744	ND
Kresoxim-methyl	43 - 2742	ND	Trifloxystrobin	44 - 2700	ND

Final Approval



Karen Winternheimer 07Feb2024 08:52:00 AM MST

Sam Smith Samanthe Small

07Feb2024 08:55:00 AM MST

APPROVED BY / DATE



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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 * (CBD * (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 by dynamic range of the method), GFU/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: 10^2 = 100 CFU, 10^3 = 1,000 CFU, 10^4 = 10,000 CFU.

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