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CERTIFICATE OF ANALYSIS

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

Pink Berry Lemonade # 042424

Batch ID or Lot Number:	Test:	Reported:	USDA License:
042424	**Potency**	**25Apr2024**	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Unit	T000278067	23Apr2024	N/A
	Method(s):	Received:	Status:
	TM14 (HPLC-DAD)	23Apr2024	N/A

Cannabinoids

	LOD (mg)	**LOQ** (mg)	**Result** (mg)	**Result** (mg/g)	**Notes**
Cannabichromene (CBC)	0.161	0.525	ND	ND	# of Servings = 1, Sample Weight=380g
Cannabichromenic Acid (CBCA)	0.147	0.481	ND	ND	
Cannabidiol (CBD)	0.481	1.345	ND	ND	
Cannabidiolic Acid (CBDA)	0.494	1.380	ND	ND	
Cannabidivarin (CBDV)	0.114	0.318	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.206	0.576	ND	ND	
Cannabigerol (CBG)	0.091	0.298	ND	ND	
Cannabigerolic Acid (CBGA)	0.382	1.247	ND	ND	
Cannabinol (CBN)	0.119	0.389	ND	ND	
Cannabinolic Acid (CBNA)	0.261	0.851	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.455	1.485	<LOQ	<LOQ	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.413	1.349	9.020	0.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.366	1.195	ND	ND	
Tetrahydrocannabivarin (THCV)	0.083	0.271	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.323	1.054	ND	ND	
Total Cannabinoids			**9.020**	**0.00**	
Total Potential THC			9.020	0.00	
Total Potential CBD			ND	ND	

Final Approval

Karen Winternheimer
25Apr2024
10:30:00 AM MDT
PREPARED BY / DATE

Phillip Travisano
25Apr2024
10:31:00 AM MDT
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/e483cdb6-5771-438c-8e85-977477290aab

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)).

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CERTIFICATE OF ANALYSIS

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	

Final Approval

Phillip Travisano
16Apr2024
01:36:00 PM MDT
PREPARED BY / DATE

Karen Winternheimer
16Apr2024
03:53:00 PM MDT
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/4e55b0aa-bac9-40e6-a83b-3db0357b8be3

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

Cert #4329.02
4e55b0aabac940e6a83b3db0357b8be3.1

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CERTIFICATE OF ANALYSIS

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	**Microbial Contaminants**	**15Apr2024**	NA
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000276977	10Apr2024	NA
	Method(s): TM25 (PCR) TM24, TM26, TM27 (Culture Plating)	Received: 10Apr2024	Status: NA

Microbial Contaminants

	Method	LOD	Quantitation Range	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	

Final Approval

Brett Hudson
15Apr2024
04:35:00 PM MDT

PREPARED BY / DATE

Brianne Maillot
16Apr2024
06:13:00 PM MDT

APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/bd2efd1d-b70a-4ed9-a87d-73bf79c600a7

Definitions
* 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, 10^5 = 100,000 CFU
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

Cert #4329.02
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CERTIFICATE OF ANALYSIS

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	**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)
Abamectin	324 - 2730	ND
Acephate	44 - 2772	ND
Acetamiprid	42 - 2701	ND
Azoxystrobin	44 - 2758	ND
Bifenazate	45 - 2748	ND
Boscalid	42 - 2714	ND
Carbaryl	40 - 2735	ND
Carbofuran	42 - 2729	ND
Chlorantraniliprole	44 - 2726	ND
Chlorpyrifos	48 - 2796	ND
Clofentezine	270 - 2794	ND
Diazinon	306 - 2749	ND
Dichlorvos	287 - 2725	ND
Dimethoate	41 - 2699	ND
E-Fenpyroximate	283 - 2830	ND
Etofenprox	42 - 2778	ND
Etoxazole	291 - 2705	ND
Fenoxycarb	26 - 2883	ND
Fipronil	33 - 2804	ND
Flonicamid	46 - 2781	ND
Fludioxonil	287 - 2662	ND
Hexythiazox	40 - 2808	ND
Imazalil	284 - 2753	ND
Imidacloprid	47 - 2776	ND
Kresoxim-methyl	42 - 2806	ND

	Dynamic Range (ppb)	**Result** (ppb)
Malathion	312 - 2753	ND
Metalaxyl	44 - 2747	ND
Methiocarb	45 - 2722	ND
Methomyl	43 - 2755	ND
MGK 264 1	171 - 1628	ND
MGK 264 2	115 - 1080	ND
Myclobutanil	44 - 2722	ND
Naled	42 - 2695	ND
Oxamyl	43 - 2751	ND
Paclobutrazol	45 - 2748	ND
Permethrin	287 - 2854	ND
Phosmet	43 - 2616	ND
Prophos	295 - 2691	ND
Propoxur	43 - 2744	ND
Pyridaben	295 - 2795	ND
Spinosad A	31 - 2108	ND
Spinosad D	68 - 680	ND
Spiromesifen	290 - 2782	ND
Spirotetramat	283 - 2841	ND
Spiroxamine 1	17 - 1012	ND
Spiroxamine 2	25 - 1593	ND
Tebuconazole	310 - 2717	ND
Thiacloprid	43 - 2733	ND
Thiamethoxam	39 - 2776	ND
Trifloxystrobin	45 - 2758	ND

Final Approval

Karen Winternheimer
24Apr2024
01:05:00 PM MDT
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Phillip Travisano
24Apr2024
01:07:00 PM MDT
APPROVED BY / DATE

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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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CERTIFICATE OF ANALYSIS

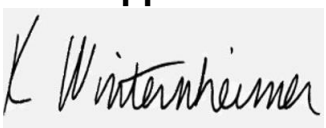
Prepared for:
SUPERIOR MOLECULAR LLC
4459 WHITE BEAR PKWY
WHITE BEAR LAKE, MN USA 55110

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

Batch ID or Lot Number:	Test:	Reported:	USDA License:
WS.FP.040824	**Residual Solvents**	**17Apr2024**	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000276979	15Apr2024	N/A
	Method(s):	Received:	Status:
	TM04 (GC-MS): Residual Solvents	10Apr2024	Active

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	
Isopropyl 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	

Final Approval



Karen Winternheimer
16Apr2024
08:46:00 AM MDT
PREPARED BY / DATE

Phillip Travisano
16Apr2024
08:48:00 AM MDT
APPROVED BY / DATE

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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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