

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

Rainbow Kushy

Batch ID or Lot Number: 062424	Test: Potency	Reported: 27Jun2024	USDA License: N/A
Matrix: Unit	Test ID: T000285106	Started: 26Jun2024	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD)	Received: 25Jun2024	Status: N/A

Cannabinoids

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.149	0.419	ND	ND	# of Servings = 1, Sample Weight=377g
Cannabichromenic Acid (CBCA)	0.136	0.383	ND	ND	
Cannabidiol (CBD)	0.338	1.298	5.360	0.00	
Cannabidiolic Acid (CBDA)	0.347	1.331	ND	ND	
Cannabidivarin (CBDV)	0.080	0.307	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.145	0.555	ND	ND	
Cannabigerol (CBG)	0.084	0.238	0.290	0.00	
Cannabigerolic Acid (CBGA)	0.353	0.995	ND	ND	
Cannabinol (CBN)	0.110	0.311	<LOQ	<LOQ	
Cannabinolic Acid (CBNA)	0.241	0.679	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.420	1.185	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.382	1.077	10.510	0.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.338	0.954	ND	ND	
Tetrahydrocannabivarin (THCV)	0.077	0.216	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.298	0.841	ND	ND	
Total Cannabinoids			16.160	0.00	
Total Potential THC			10.510	0.00	
Total Potential CBD			5.360	0.00	

Final Approval



Karen Winternheimer
26Jun2024
01:56:00 PM MDT

PREPARED BY / DATE



Sam Smith
27Jun2024
08:17:00 AM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/72c09d37-6bc8-426f-acd7-8833e6a304b0>

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.



Cert.#4329.02
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Prepared for:
SUPERIOR MOLECULAR LLC

4459 WHITE BEAR PKWY
WHITE BEAR LAKE, MN USA 55110

Water Sol Full Panel May-July 2024 CBN,CBG,CBD,THC

Batch ID or Lot Number: WS.FP.052824	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 1 of 4
Reported: 31May2024	Started: 31May2024	Received: 29May2024	

Heavy Metals

Test ID: T000282343

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.77	ND	
Cadmium	0.05 - 4.88	ND	
Mercury	0.05 - 4.63	ND	
Lead	0.05 - 4.68	ND	

Final Approval


Karen Winternheimer
31May2024
01:01:00 PM MDT

PREPARED BY / DATE


Sam Smith
31May2024
01:03:00 PM MDT

APPROVED BY / DATE

Microbial Contaminants

Test ID: T000282342

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
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


Brianne Maillot
02Jun2024
12:16:00 PM MDT

PREPARED BY / DATE


Brett Hudson
03Jun2024
05:30:00 PM MDT

APPROVED BY / DATE

Prepared for:

SUPERIOR MOLECULAR LLC

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WHITE BEAR LAKE, MN USA 55110

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Residual Solvents

Test ID: T000282344

Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	92 - 1832	ND	
Butanes (Isobutane, n-Butane)	183 - 3653	ND	
Methanol	63 - 1265	ND	
Pentane	94 - 1888	ND	
Ethanol	100 - 1992	ND	
Acetone	107 - 2131	ND	
Isopropyl Alcohol	109 - 2186	ND	
Hexane	7 - 133	ND	
Ethyl Acetate	109 - 2178	ND	
Benzene	0.2 - 4.4	ND	
Heptanes	102 - 2040	ND	
Toluene	19 - 386	ND	
Xylenes (m,p,o-Xylenes)	134 - 2683	ND	

Final Approval


Karen Winternheimer
04Jun2024
10:29:00 AM MDT
PREPARED BY / DATE


Sam Smith
04Jun2024
10:33:00 AM MDT
APPROVED BY / DATE

Prepared for:
SUPERIOR MOLECULAR LLC

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WHITE BEAR LAKE, MN USA 55110

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Pesticides

Test ID: T000282341

Methods: TM17

(LC-QQ LC MS/MS)

	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)
Abamectin	338 - 2814	ND	Malathion	276 - 2737	ND
Acephate	44 - 2726	ND	Metalaxyl	45 - 2745	ND
Acetamiprid	44 - 2712	ND	Methiocarb	40 - 2760	ND
Azoxystrobin	42 - 2720	ND	Methomyl	44 - 2794	ND
Bifenazate	32 - 2734	ND	MGK 264 1	175 - 1637	ND
Boscalid	39 - 2750	ND	MGK 264 2	133 - 1057	ND
Carbaryl	42 - 2723	ND	Myclobutanil	40 - 2722	ND
Carbofuran	41 - 2710	ND	Naled	43 - 2655	ND
Chlorantraniliprole	34 - 2762	ND	Oxamyl	44 - 2765	ND
Chlorpyrifos	44 - 2733	ND	Paclobutrazol	42 - 2697	ND
Clofentezine	280 - 2749	ND	Permethrin	277 - 2687	ND
Diazinon	283 - 2720	ND	Phosmet	33 - 2602	ND
Dichlorvos	274 - 2739	ND	Prophos	266 - 2795	ND
Dimethoate	43 - 2711	ND	Propoxur	39 - 2723	ND
E-Fenpyroximate	284 - 2616	ND	Pyridaben	280 - 2644	ND
Etofenprox	38 - 2629	ND	Spinosad A	31 - 2078	ND
Etoxazole	276 - 2541	ND	Spinosad D	68 - 637	ND
Fenoxycarb	12 - 2712	ND	Spiromesifen	279 - 2620	ND
Fipronil	50 - 2702	ND	Spirotetramat	281 - 2789	ND
Flonicamid	47 - 2755	ND	Spiroxamine 1	15 - 1013	ND
Fludioxonil	276 - 2757	ND	Spiroxamine 2	23 - 1623	ND
Hexythiazox	36 - 2651	ND	Tebuconazole	291 - 2722	ND
Imazalil	295 - 2769	ND	Thiacloprid	44 - 2756	ND
Imidacloprid	44 - 2776	ND	Thiamethoxam	44 - 2708	ND
Kresoxim-methyl	30 - 2748	ND	Trifloxystrobin	42 - 2715	ND

Final Approval

 Karen Winternheimer
10Jun2024
01:06:00 PM MDT
PREPARED BY / DATE

 Sam Smith
10Jun2024
01:34:00 PM MDT
APPROVED BY / DATE

Prepared for:

SUPERIOR MOLECULAR LLC

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<https://results.botanacor.com/api/v1/coas/uuid/fe4b7038-aa0e-4e72-83c3-976fe389f70c>

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.

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