

**SAMPLE NAME:** Oliphant Ruin Lemonade 10mgD9 +5mgCBD

Infused, Hemp

**CULTIVATOR / MANUFACTURER**
**Business Name:**
**License Number:**
**Address:**
**DISTRIBUTOR / TESTED FOR**
**Business Name:** The Brewing Projekt

**License Number:**
**Address:**

**SAMPLE DETAIL**
**Batch Number:** 060924

**Sample ID:** 240620P021

**Date Collected:** 06/20/2024

**Date Received:** 06/20/2024

**Batch Size:** 354.8 units

**Sample Size:** 1.0 units

**Unit Mass:** 354.8 milliliters per Unit

**Serving Size:** 354.8 milliliters per Serving


Scan QR code to verify authenticity of results.

**CANNABINOID ANALYSIS - SUMMARY**
**Total THC:** 9.3023 mg/unit

**Total CBD:** 5.6544 mg/unit

**Sum of Cannabinoids:** 14.9567 mg/unit

**Total Cannabinoids:** 14.9567 mg/unit

Total THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during the decarboxylation step:

$$\text{Total THC} = \Delta^9\text{-THC} + (\text{THCa} \cdot 0.877)$$

$$\text{Total CBD} = \text{CBD} + (\text{CBDa} \cdot 0.877)$$

$$\text{Sum of Cannabinoids} = \Delta^9\text{-THC} + \text{THCa} + \text{CBD} + \text{CBDa} + \text{CBG} + \text{CBGa} +$$

$$\text{THCV} + \text{THCVa} + \text{CBC} + \text{CBCa} + \text{CBDV} + \text{CBDVa} + \Delta^8\text{-THC} + \text{CBL} + \text{CBN}$$

$$\text{Total Cannabinoids} = (\Delta^9\text{-THC} + 0.877 \cdot \text{THCa}) + (\text{CBD} + 0.877 \cdot \text{CBDa}) +$$

$$(\text{CBG} + 0.877 \cdot \text{CBGa}) + (\text{THCV} + 0.877 \cdot \text{THCVa}) + (\text{CBC} + 0.877 \cdot \text{CBCa}) +$$

$$(\text{CBDV} + 0.877 \cdot \text{CBDVa}) + \Delta^8\text{-THC} + \text{CBL} + \text{CBN}$$
**Density:** 0.9982 g/mL

For quality assurance purposes. Not a Regulatory Hemp Lab Test Report. These results relate only to the sample included on this report. This report shall not be reproduced, except in full, without written approval of the laboratory.



 LQC verified by: Michael Pham  
 Job Title: Senior Laboratory Analyst  
 Date: 06/21/2024



 Approved by: Josh Wurzer  
 Job Title: Chief Compliance Officer  
 Date: 06/21/2024

**References:** limit of detection (LOD), limit of quantification (LOQ), not detected (ND), not tested (NT)




## Cannabinoid Analysis

Tested by high-performance liquid chromatography with diode-array detection (HPLC-DAD).

**Method:** QSP 1157 - Analysis of Cannabinoids by HPLC-DAD

**TOTAL THC: 9.3023 mg/unit**

Total THC ( $\Delta^9$ -THC+0.877\*THCa)

**TOTAL CBD: 5.6544 mg/unit**

Total CBD (CBD+0.877\*CBDA)

**TOTAL CANNABINOIDS: 14.9567 mg/unit**

Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCV) + (Total CBC) + (Total CBDV) +  $\Delta^8$ -THC + CBL + CBN

**TOTAL CBG: <LOQ**

Total CBG (CBG+0.877\*CBGa)

**TOTAL THCV: ND**

Total THCV (THCV+0.877\*THCVa)

**TOTAL CBC: ND**

Total CBC (CBC+0.877\*CBCa)

**TOTAL CBDV: ND**

Total CBDV (CBDV+0.877\*CBDVa)

### CANNABINOID TEST RESULTS - 06/21/2024

COMPOUND	LOD/LOQ (mg/mL)	MEASUREMENT UNCERTAINTY (mg/mL)	RESULT (mg/mL)	RESULT (%)
$\Delta^9$ -THC	0.0001 / 0.0005	$\pm 0.00128$	0.0234	0.00234
CBD	0.0001 / 0.0004	$\pm 0.00038$	0.0103	0.00103
CBG	0.0001 / 0.0002	N/A	<LOQ	<LOQ
CBN	0.0001 / 0.0003	N/A	<LOQ	<LOQ
$\Delta^8$ -THC	0.0003 / 0.0008	N/A	ND	ND
THCa	0.0001 / 0.0002	N/A	ND	ND
THCV	0.0001 / 0.0005	N/A	ND	ND
THCVa	0.0001 / 0.0007	N/A	ND	ND
CBDA	0.0001 / 0.0010	N/A	ND	ND
CBDV	0.0001 / 0.0005	N/A	ND	ND
CBDVa	0.0001 / 0.0007	N/A	ND	ND
CBGa	0.0001 / 0.0003	N/A	ND	ND
CBL	0.0001 / 0.0004	N/A	ND	ND
CBC	0.0001 / 0.0004	N/A	ND	ND
CBCa	0.0001 / 0.0006	N/A	ND	ND
<b>SUM OF CANNABINOIDS</b>			0.0337 mg/mL	0.00338%

Unit Mass: 354.8 milliliters per Unit / Serving Size: 354.8 milliliters per Serving

$\Delta^9$ -THC per Unit	9.3023 mg/unit
$\Delta^9$ -THC per Serving	9.3023 mg/serving
Total THC per Unit	9.3023 mg/unit
Total THC per Serving	9.3023 mg/serving
CBD per Unit	5.6544 mg/unit
CBD per Serving	5.6544 mg/serving
Total CBD per Unit	5.6544 mg/unit
Total CBD per Serving	5.6544 mg/serving
Sum of Cannabinoids per Unit	14.9567 mg/unit
Sum of Cannabinoids per Serving	14.9567 mg/serving
Total Cannabinoids per Unit	14.9567 mg/unit
Total Cannabinoids per Serving	14.9567 mg/serving

### DENSITY TEST RESULT

0.9982 g/mL

Tested 06/21/2024

**Method:** QSP 7870 - Sample Preparation

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: <b>WS.FP.052824</b>	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 1 of 4
Reported: <b>31May2024</b>	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 <sup>0</sup> CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
Salmonella	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

  
Brienne 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**

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: <b>WS.FP.052824</b>	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 2 of 4
Reported: <b>31May2024</b>	Started: 31May2024	Received: 29May2024	


### 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**

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: <b>WS.FP.052824</b>	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 3 of 4
Reported: <b>31May2024</b>	Started: 31May2024	Received: 29May2024	

### 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
Etoazole	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**

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: <b>WS.FP.052824</b>	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 4 of 4
Reported: <b>31May2024</b>	Started: 31May2024	Received: 29May2024	



<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: 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](#).



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