

Prepared for:

**Innovative Clinical Solutions**

19523 Water Point Trl  
Humble, TX USA 77346

## ICS11 | 1oz Oil - 2000mg CBD Limonene + Mint

Batch ID or Lot Number: <b>02ICLM2</b>	Test, Test ID and Methods: Various	Matrix: Unit	Page 1 of 6
Reported: <b>16Feb2024</b>	Started: 14Feb2024	Received: 14Feb2024	


### Cannabinoids - Colorado Compliance

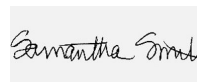
Test ID: T000270721

Methods: TM14 (HPLC-DAD): Potency – Standard

Cannabinoid Analysis	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	1.727	5.634	ND	ND	# of Servings = 1 Sample Weight=27.9g
Cannabichromenic Acid (CBCA)	1.580	5.153	ND	ND	
Cannabidiol (CBD)	5.298	14.616	2062.878	73.94	
Cannabidiolic Acid (CBDA)	5.434	14.990	ND	ND	
Cannabidivarin (CBDV)	1.253	3.457	8.591	0.31	
Cannabidivarinic Acid (CBDVA)	2.267	6.253	ND	ND	
Cannabigerol (CBG)	0.981	3.199	ND	ND	
Cannabigerolic Acid (CBGA)	4.099	13.371	ND	ND	
Cannabinol (CBN)	1.279	4.173	ND	ND	
Cannabinolic Acid (CBNA)	2.797	9.123	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	4.883	15.930	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	4.435	14.467	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	3.929	12.818	ND	ND	
Tetrahydrocannabivarin (THCV)	0.892	2.909	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	3.466	11.306	ND	ND	
<b>Total Cannabinoids</b>			<b>2071.469</b>	<b>74.25</b>	
Total Potential THC			ND	ND	
Total Potential CBD			2062.878	73.94	

### Final Approval

  
Karen Winternheimer  
16Feb2024  
09:43:00 AM MST  
PREPARED BY / DATE

  
Sam Smith  
16Feb2024  
09:47:00 AM MST  
APPROVED BY / DATE

Prepared for:

**Innovative Clinical Solutions**

19523 Water Point Trl  
Humble, TX USA 77346

## ICS11 | 1oz Oil - 2000mg CBD Limonene + Mint

Batch ID or Lot Number: <b>02ICLM2</b>	Test, Test ID and Methods: Various	Matrix: Unit	Page 2 of 6
Reported: <b>16Feb2024</b>	Started: 14Feb2024	Received: 14Feb2024	


### Residual Solvents - Colorado Compliance

Test ID: T000270726


Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	84 - 1674	ND	
Butanes (Isobutane, n-Butane)	183 - 3657	ND	
Methanol	63 - 1267	ND	
Pentane	77 - 1537	ND	
Ethanol	87 - 1737	ND	
Acetone	93 - 1862	ND	
Isopropyl Alcohol	106 - 2124	ND	
Hexane	6 - 129	ND	
Ethyl Acetate	105 - 2092	ND	
Benzene	0.2 - 4.1	ND	
Heptanes	91 - 1824	ND	
Toluene	17 - 332	ND	
Xylenes (m,p,o-Xylenes)	123 - 2458	ND	

### Final Approval

 Karen Winternheimer  
16Feb2024  
09:18:00 AM MST

PREPARED BY / DATE

 Sam Smith  
16Feb2024  
09:20:00 AM MST

APPROVED BY / DATE

Prepared for:  
**Innovative Clinical Solutions**

19523 Water Point Trl  
Humble, TX USA 77346

## ICS11 | 1oz Oil - 2000mg CBD Limonene + Mint

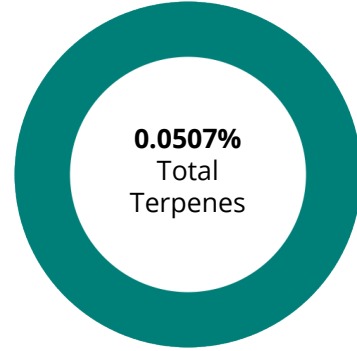
Batch ID or Lot Number: <b>02ICLM2</b>	Test, Test ID and Methods: Various	Matrix: Unit	Page 3 of 6
Reported: <b>16Feb2024</b>	Started: 14Feb2024	Received: 14Feb2024	

### Terpenes

Test ID: T000270722

Methods: TM22 (GC-MS)

	%(w/w)	(mg/g)
(-)-alpha-Bisabolol	0.0000	0.0000
(-)-beta-Pinene	0.0000	0.0000
(-)-Caryophyllene Oxide	0.0000	0.0000
(-)-Isopulegol	0.0000	0.0000
alpha-Humulene	0.0000	0.0000
alpha-Pinene	0.0000	0.0000
alpha-Terpinene	0.0000	0.0000
beta-Caryophyllene	0.0000	0.0000
beta-Myrcene	0.0000	0.0000
beta-Ocimene	0.0000	0.0000
Camphene	0.0000	0.0000
cis-Nerolidol	0.0000	0.0000
d-Limonene	0.0507	0.507
delta-3-Carene	0.0000	0.0000
Eucalyptol	0.0000	0.0000
gamma-Terpinene	0.0000	0.0000
Geraniol	0.0000	0.0000
Linalool	0.0000	0.0000
Ocimene	0.0000	0.0000
p-Cymene	0.0000	0.0000
Terpinolene	0.0000	0.0000
trans-Nerolidol	0.0000	0.0000
	<b>0.0507</b>	<b>0.5070</b>




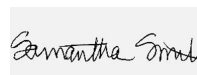
#### PREDOMINANT TERPENES

<b>(-)-alpha-Bisabolol</b>	0.0000
<b>(-)-beta-Pinene</b>	0.0000
<b>alpha-Humulene</b>	0.0000
<b>alpha-Pinene</b>	0.0000
<b>alpha-Terpinene</b>	0.0000
<b>beta-Caryophyllene</b>	0.0000
<b>beta-Myrcene</b>	0.0000
<b>d-Limonene</b>	0.0507
<b>delta-3-Carene</b>	0.0000
<b>Linalool</b>	0.0000

#### Notes

#### Final Approval

  
Karen Winternheimer  
16Feb2024  
11:19:00 AM MST  
PREPARED BY / DATE

  
Sam Smith  
16Feb2024  
11:25:00 AM MST  
APPROVED BY / DATE

Prepared for:

**Innovative Clinical Solutions**

19523 Water Point Trl  
Humble, TX USA 77346

## ICS11 | 1oz Oil - 2000mg CBD Limonene + Mint

Batch ID or Lot Number: <b>02ICLM2</b>	Test, Test ID and Methods: Various	Matrix: Unit	Page 4 of 6
Reported: <b>16Feb2024</b>	Started: 14Feb2024	Received: 14Feb2024	


### Heavy Metals - Colorado Compliance


Test ID: T000270725

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.39	ND	
Cadmium	0.04 - 4.38	ND	
Mercury	0.05 - 4.76	ND	
Lead	0.05 - 4.77	ND	

#### Final Approval

  
Samantha Smith  
16Feb2024  
02:58:00 PM MST  
PREPARED BY / DATE

  
Samantha Smith  
16Feb2024  
03:48:00 PM MST  
APPROVED BY / DATE


### Microbial Contaminants - Colorado Compliance

Test ID: T000270724

Methods: TM25 (qPCR) TM24, TM26,  
TM27 (Culture Plating): Microbial  
(Colorado Panel)

	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

  
Brett Hudson  
17Feb2024  
02:09:00 PM MST  
PREPARED BY / DATE

  
Eden Thompson-Wright  
19Feb2024  
09:31:00 AM MST  
APPROVED BY / DATE

Prepared for:

## Innovative Clinical Solutions

19523 Water Point Trl  
Humble, TX USA 77346

### ICS11 | 1oz Oil - 2000mg CBD Limonene + Mint

Batch ID or Lot Number: <b>02ICLM2</b>	Test, Test ID and Methods: Various	Matrix: Unit	Page 5 of 6
Reported: <b>16Feb2024</b>	Started: 14Feb2024	Received: 14Feb2024	


### Pesticides


Test ID: T000270723

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	298 - 2748	ND		Malathion	288 - 2690	ND
Acephate	40 - 2730	ND		Metalaxyl	41 - 2695	ND
Acetamiprid	41 - 2685	ND		Methiocarb	42 - 2685	ND
Azoxystrobin	44 - 2703	ND		Methomyl	41 - 2765	ND
Bifenazate	43 - 2708	ND		MGK 264 1	159 - 1637	ND
Boscalid	43 - 2663	ND		MGK 264 2	111 - 1064	ND
Carbaryl	42 - 2688	ND		Myclobutanil	36 - 2665	ND
Carbofuran	42 - 2688	ND		Naled	42 - 2657	ND
Chlorantraniliprole	45 - 2679	ND		Oxamyl	41 - 2737	ND
Chlorpyrifos	49 - 2741	ND		Paclobutrazol	44 - 2728	ND
Clofentezine	272 - 2696	ND		Permethrin	290 - 2776	ND
Diazinon	290 - 2697	ND		Phosmet	40 - 2577	ND
Dichlorvos	266 - 2739	ND		Prophos	282 - 2675	ND
Dimethoate	42 - 2678	ND		Propoxur	42 - 2694	ND
E-Fenpyroximate	278 - 2800	ND		Pyridaben	297 - 2691	ND
Etofenprox	43 - 2717	ND		Spinosad A	34 - 2075	ND
Etoxazole	293 - 2631	ND		Spinosad D	67 - 658	ND
Fenoxycarb	42 - 2698	ND		Spiromesifen	268 - 2692	ND
Fipronil	37 - 2786	ND		Spirotetramat	285 - 2786	ND
Flonicamid	42 - 2769	ND		Spiroxamine 1	16 - 1030	ND
Fludioxonil	267 - 2685	ND		Spiroxamine 2	24 - 1613	ND
Hexythiazox	42 - 2738	ND		Tebuconazole	290 - 2686	ND
Imazalil	284 - 2712	ND		Thiacloprid	41 - 2696	ND
Imidacloprid	41 - 2770	ND		Thiamethoxam	42 - 2750	ND
Kresoxim-methyl	45 - 2738	ND		Trifloxystrobin	43 - 2702	ND

### Final Approval

 Karen Winternheimer  
21Feb2024  
11:47:00 AM MST  
PREPARED BY / DATE

 Sam Smith  
21Feb2024  
11:48:00 AM MST  
APPROVED BY / DATE

Prepared for:

**Innovative Clinical Solutions**

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Humble, TX USA 77346

## ICS11 | 1oz Oil - 2000mg CBD Limonene + Mint

Batch ID or Lot Number: <b>02ICLM2</b>	Test, Test ID and Methods: Various	Matrix: Unit	Page 6 of 6
Reported: <b>16Feb2024</b>	Started: 14Feb2024	Received: 14Feb2024	



<https://results.botanacor.com/api/v1/coas/uuid/335ddb5-9071-4cdc-a758-c74ebf282a6>

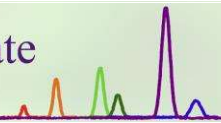
### Definitions

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](#).



Cert #4329.02  
335ddb590714cdca758c74ebf282a6.1



Certificate ID: **82844-371** Received: **6/8/20**  
 Client Sample ID: **1oz Oil - 2000mg - Iso - Limonene Mint**  
 Lot Number: **ICS11-01**  
 Matrix: **Tincture/Infused Oil - Hemp Seed Oil**

Scan QR Code for authenticity



Authorization: Chris Hudalla, Chief Science Officer	Signature: <i>Christopher Hudalla</i>	Date: 6/23/2020
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The data contained within this report was collected in accordance with the requirements of ISO/IEC17025:2017. I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the test article listed in this report. Reports may not be reproduced except in their entirety.

**CN: Cannabinoid Profile & Potency [WI-10-17 & WI-10-17-01]** Analyst: RAS Test Date: 6/15/2020

The client sample was analyzed for plant-based cannabinoids by Liquid Chromatography (LC). The collected data was compared to data collected for certified reference standards at known concentrations.

**82844-CN**

ID	Weight %	Concentration (mg/mL)		
D9-THC	ND	ND		
THCV	ND	ND		
CBD	6.37	58.30		
CBDV	0.02	0.23		
CBG	ND	ND		
CBC	ND	ND		
CBN	ND	ND		
THCA	ND	ND		
CBDA	ND	ND		
CBGA	ND	ND		
D8-THC	ND	ND		
exo-THC	ND	ND		
Total	6.39	58.50	0%	Cannabinoids (wt%) 6.4%
Max THC	ND	ND		
Max CBD	6.37	58.30		

Limit of Quantitation (LOQ) = 0.01 wt%

Max THC (and Max CBD) are calculated values for total cannabinoids after heating, assuming complete decarboxylation of the acid to the neutral form. It is calculated based on the weight loss of the acid group during decarboxylation: Max THC = (0.877 x THCA) + THC. This calculation does not include other cannabinoid isomers (eg. D8-THC and exo-THC). ND = None detected above the limits of detection (LOD), which is half of LOQ.

**HM: Heavy Metal Analysis [WI-10-13]**

Analyst: CJS

Test Date: 6/16/2020

This test method was performed in accordance with the requirements of ISO/IEC 17025. These results relate only to the test article listed in this report. Reports may not be reproduced except in their entirety.

**82844-HM**

Symbol	Metal	Conc. <sup>1</sup> (µg/kg)	RL	Use Limits <sup>2</sup> (µg/kg)		Status
				All	Ingestion	
As	Arsenic	ND	50	200	1500	PASS
Cd	Cadmium	ND	50	200	500	PASS
Hg	Mercury	ND	50	100	1500	PASS
Pb	Lead	ND	50	500	1000	PASS

1) ND = None detected to Lowest Limits of Detection (LLD)

2) MA Dept. of Public Health: Protocol for MMJ and MIPS, Exhibit 4(a) for all products.

3) USP exposure limits based on daily oral dosing of 1g of concentrate for a 110 lb person.

**MB1: Microbiological Contaminants [WI-10-09]**

Analyst: AEG

Test Date: 6/9/2020

This test method was performed in accordance with the requirements of ISO/IEC 17025. These results relate only to the test article listed in this report. Reports may not be reproduced except in their entirety.

**82844-MB1**

Symbol	Analysis	Results	Units	Limits*	Status
AC	Total Aerobic Bacterial Count	<100	CFU/g	100,000 CFU/g	PASS
CC	Total Coliform Bacterial Count	<100	CFU/g	1,000 CFU/g	PASS
EB	Total Bile Tolerant Gram Negative Count	<100	CFU/g	1,000 CFU/g	PASS
YM	Total Yeast & Mold	<100	CFU/g	10,000 CFU/g	PASS

Recommended limits established by the American Herbal Pharmacopoeia (AHP) monograph for Cannabis Inflorescence [2013], for consumable botanical products, including processed and unprocessed cannabis materials, and solvent-based extracts. Note: All recorded Microbiological tests are within the established limits.

**PST: Pesticide Analysis [WI-10-11]**

Analyst: CJR

Test Date: 6/15/2020

The client sample was analyzed for pesticides using Liquid Chromatography with Mass Spectrometric detection (LC/MS/MS). The method used for sample prep was based on the European method for pesticide analysis (EN 15662).

**82844-PST**

Analyte	CAS	Result	Units	LLD	Limits (ppb)	Status
Abamectin	71751-41-2	ND	ppb	0.20	300	PASS
Spinosad	168316-95-8	ND	ppb	0.10	3000	PASS
Pyrethrin	8003-34-7	ND	ppb	0.10	1000	PASS
Trifloxystrobin	141517-21-7	ND	ppb	0.10	30000	PASS
Spirotetramat	203313-25-1	ND	ppb	0.10	13000	PASS
Spiromesifen	283594-90-1	ND	ppb	0.10	12000	PASS
Piperonyl butoxide	51-03-6	ND	ppb	0.10	8000	PASS
Paclobutrazol	76738-62-0	ND	ppb	0.10	10	PASS
Myclobutanil	88671-89-0	ND	ppb	0.10	9000	PASS
Imidacloprid	138261-41-3	ND	ppb	0.10	3000	PASS
Imazalil	35554-44-0	ND	ppb	0.10	10	PASS
Fenoxycarb	72490-01-8	ND	ppb	0.10	10	PASS
Etoazole	153233-91-1	ND	ppb	0.10	1500	PASS
Dichlorvos	62-73-7	ND	ppb	3.00	10	PASS



Cyfluthrin	68359-37-5	ND	ppb	0.50	1000	PASS
Bifenthrin	82657-04-3	ND	ppb	0.20	500	PASS
Bifenazate	149877-41-8	ND	ppb	0.10	5000	PASS
Azoxystrobin	131860-33-8	ND	ppb	0.10	40000	PASS

\* Testing limits for ingestion established by the State of California: CCR, Title 16, Division 42, Chapter 5, Section 5313. ND indicates "none detected" above the lower limit of detection (LLD). Analytes marked with (\*) indicate analytes for which no recovery was observed for a pre-spiked matrix sample.

### TP: Terpenes Profile [WI-10-27]

Analyst: CA

Test Date: 6/15/2020

Client sample analysis was performed using full evaporative technique (FET) headspace sample delivery and gas chromatographic (GC) compound separation. A combination of flame ionization detection (FID) and/or mass spectrometric (MS) detection with mass spectral confirmation against the National Institute of Standards and Technology (NIST) Mass Spectral Database, Revision 2017 were used. Chromatographic and/or mass spectral data were processed by quantitatively comparing the analytical peak areas against calibration curves prepared from certified reference standards.

### 82844-TP

Compound	CAS	Conc. (wt%)	Conc. (ppm)	Qualitative Profile
alpha-pinene	80-56-8	0.0246	246	
camphene	79-92-5	0.00	7.14	
sabinene*	3387-41-5	0.0133	133	
beta-myrcene	123-35-3	0.0329	329	
beta-pinene	127-91-3	0.0353	353	
alpha-phellandrene	99-83-2	0.00	18.4	
delta-3-carene	13466-78-9	<RL	<RL	
alpha-terpinene	99-86-5	0.00	29.2	
alpha-ocimene	502-99-8	0.00	18.2	
D-limonene	138-86-3	0.841	8,410	
p-cymene	99-87-6	0.0108	108	
cis-beta-ocimene	3338-55-4	0.00	64.7	
eucalyptol	470-82-6	0.111	1,110	
gamma-terpinene	99-85-4	0.00	71.0	
terpinolene	586-62-9	0.00	24.8	
linalool	78-70-6	0.00	17.3	
L-fenchone*	7787-20-4	<RL	<RL	
isopulegol	89-79-2	0.00	16.1	
menthol*	89-78-1	0.186	1,860	
geraniol	106-24-1	ND	ND	
beta-caryophyllene	87-44-5	0.0156	156	
alpha-humulene	6753-98-6	0.00	7.96	
cis-nerolidol	3790-78-1	ND	ND	
trans-nerolidol	40716-66-3	ND	ND	
guaial	489-86-1	ND	ND	
caryophyllene oxide	1139-30-6	<RL	<RL	
alpha-bisabolol	23089-26-1	ND	ND	

Total Terpene: 1.3 wt%

\* Certified reference standard not available for this compound. Concentration is estimated using the response factor from alpha-pinene. ND = None Detected. RL = Reporting Limit of 5 ppm.

**VC: Analysis of Volatile Organic Compounds [WI-10-28]**

Analyst: CA

Test Date: 6/10/2020

The client sample was analyzed by Head-Space Gas Chromatography (HS-GC). The collected data was compared to data collected for certified reference standards at known concentrations.

**82844-VC**

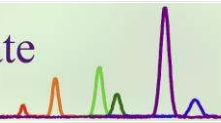
Compound	CAS	Amount <sup>1</sup>	Limit <sup>2</sup>	RL	Status
Propane	74-98-6	ND	1,000 ppm	100	PASS
Isobutane	75-28-5	ND	1,000 ppm	100	PASS
Butane	106-97-8	ND	1,000 ppm	100	PASS
Methanol	67-56-1	ND	3,000 ppm	100	PASS
Pentane	109-66-0	ND	5,000 ppm	100	PASS
Ethanol	64-17-5	ND	5,000 ppm	100	PASS
Acetone	67-64-1	ND	5,000 ppm	100	PASS
Isopropanol	67-63-0	ND	5,000 ppm	100	PASS
Acetonitrile	75-05-8	ND	410 ppm	100	PASS
Hexane	110-54-3	ND	290 ppm	100	PASS
Heptane	142-82-5	ND	5,000 ppm	100	PASS

1) ND = Not detected at a level greater than the Reporting Limit (RL).

2) In ppm, based on USP recommended limits for residual solvents, adopted by the Massachusetts Department of Public Health for cannabis concentrates and extracts on 3/31/16. Butane/Propane limits are based on limits established for state of Colorado.

(\*) For ethanol, as many formulations contain flavorings based on ethanol extracts of natural products, no status has been assigned.

**END OF REPORT**



Certificate ID: 77966-371

Received: 2/19/20

Scan QR Code for authenticity



Client Sample ID: 1oz Oil - 2000mg - Iso - Limonene

Lot Number: ICS02-02

Matrix: Tincture/Infused Oil - MCT Oil

Authorization:

Jon Podgorni, Lead Research Chemist

Signature:



Date:

3/6/2020



The data contained within this report was collected in accordance with the requirements of ISO/IEC17025:2017. I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the test article listed in this report. Reports may not be reproduced except in their entirety.

**CN: Cannabinoid Profile & Potency [WI-10-17 & WI-10-17-01]**

Analyst: JDP

Test Date: 2/21/2020

The client sample was analyzed for plant-based cannabinoids by Liquid Chromatography (LC). The collected data was compared to data collected for certified reference standards at known concentrations.

**77966-CN**

ID	Weight %	Concentration (mg/mL)		
D9-THC	ND	ND		
THCV	ND	ND		
CBD	6.65	60.48		
CBDV	0.01	0.11		
CBG	ND	ND		
CBC	ND	ND		
CBN	ND	ND		
THCA	ND	ND		
CBDA	ND	ND		
CBGA	ND	ND		
D8-THC	ND	ND		
exo-THC	ND	ND		
Total	6.66	60.58	0%	Cannabinoids (wt%) 6.7%
Max THC	ND	ND		
Max CBD	6.65	60.48		

Limit of Quantitation (LOQ) = 0.01 wt%

Max THC (and Max CBD) are calculated values for total cannabinoids after heating, assuming complete decarboxylation of the acid to the neutral form. It is calculated based on the weight loss of the acid group during decarboxylation: Max THC = (0.877 x THCA) + THC. This calculation does not include other cannabinoid isomers (eg. D8-THC and exo-THC). ND = None detected above the limits of detection (LOD), which is half of LOQ.

**HM: Heavy Metal Analysis [WI-10-13]**

Analyst: CJS

Test Date: 2/21/2020

This test method was performed in accordance with the requirements of ISO/IEC 17025. These results relate only to the test article listed in this report. Reports may not be reproduced except in their entirety.

**77966-HM**

Symbol	Metal	Conc. <sup>1</sup> (µg/kg)	RL	Use Limits <sup>2</sup> (µg/kg)		Status
				All	Ingestion	
As	Arsenic	ND	50	200	1500	PASS
Cd	Cadmium	ND	50	200	500	PASS
Hg	Mercury	ND	50	100	1500	PASS
Pb	Lead	ND	50	500	1000	PASS

1) ND = None detected to Lowest Limits of Detection (LLD)

2) MA Dept. of Public Health: Protocol for MMJ and MIPS, Exhibit 4(a) for all products.

3) USP exposure limits based on daily oral dosing of 1g of concentrate for a 110 lb person.

**MB1: Microbiological Contaminants [WI-10-09]**

Analyst: MM

Test Date: 2/21/2020

This test method was performed in accordance with the requirements of ISO/IEC 17025. These results relate only to the test article listed in this report. Reports may not be reproduced except in their entirety.

**77966-MB1**

Symbol	Analysis	Results	Units	Limits*	Status
AC	Total Aerobic Bacterial Count	<100	CFU/g	100,000 CFU/g	PASS
CC	Total Coliform Bacterial Count	<100	CFU/g	1,000 CFU/g	PASS
EB	Total Bile Tolerant Gram Negative Count	<100	CFU/g	1,000 CFU/g	PASS
YM	Total Yeast & Mold	<100	CFU/g	10,000 CFU/g	PASS

Recommended limits established by the American Herbal Pharmacopoeia (AHP) monograph for Cannabis Inflorescence [2013], for consumable botanical products, including processed and unprocessed cannabis materials, and solvent-based extracts. Note: All recorded Microbiological tests are within the established limits.

**PST: Pesticide Analysis [WI-10-11]**

Analyst: CJR

Test Date: 2/24/2020

The client sample was analyzed for pesticides using Liquid Chromatography with Mass Spectrometric detection (LC/MS/MS). The method used for sample prep was based on the European method for pesticide analysis (EN 15662).

**77966-PST**

Analyte	CAS	Result	Units	LLD	Limits (ppb)	Status
Abamectin	71751-41-2	ND	ppb	0.2	300	PASS
Azoxystrobin	131860-33-8	ND	ppb	0.10	40000	PASS
Bifenazate	149877-41-8	ND	ppb	0.10	5000	PASS
Bifenthrin	82657-04-3	ND	ppb	0.20	500	PASS
Cyfluthrin	68359-37-5	ND	ppb	0.50	1000	PASS
Daminozide	1596-84-5	ND	ppb	10.00	10	*
Etoxazole	153233-91-1	ND	ppb	0.10	1500	PASS
Fenoxycarb	72490-01-8	ND	ppb	0.10	10	PASS
Imazalil	35554-44-0	ND	ppb	0.10	10	PASS
Imidacloprid	138261-41-3	ND	ppb	0.10	3000	PASS
Myclobutanil	88671-89-0	ND	ppb	0.10	9000	PASS
Paclobutrazol	76738-62-0	ND	ppb	0.10	10	PASS
Piperonyl butoxide	51-03-6	ND	ppb	0.10	8000	PASS
Pyrethrin	8003-34-7	ND	ppb	0.1	1000	PASS
Spinosad	168316-95-8	ND	ppb	0.1	3000	PASS
Spiromesifen	283594-90-1	ND	ppb	0.10	12000	PASS
Spirotetramat	203313-25-1	ND	ppb	0.10	13000	PASS
Trifloxystrobin	141517-21-7	ND	ppb	0.10	30000	PASS

\* Testing limits for ingestion established by the State of California: CCR, Title 16, Division 42, Chapter 5, Section 5313. ND indicates "none detected" above the lower limit of detection (LLD). Analytes marked with (\*) indicate analytes for which no recovery was observed for a pre-spiked matrix sample.

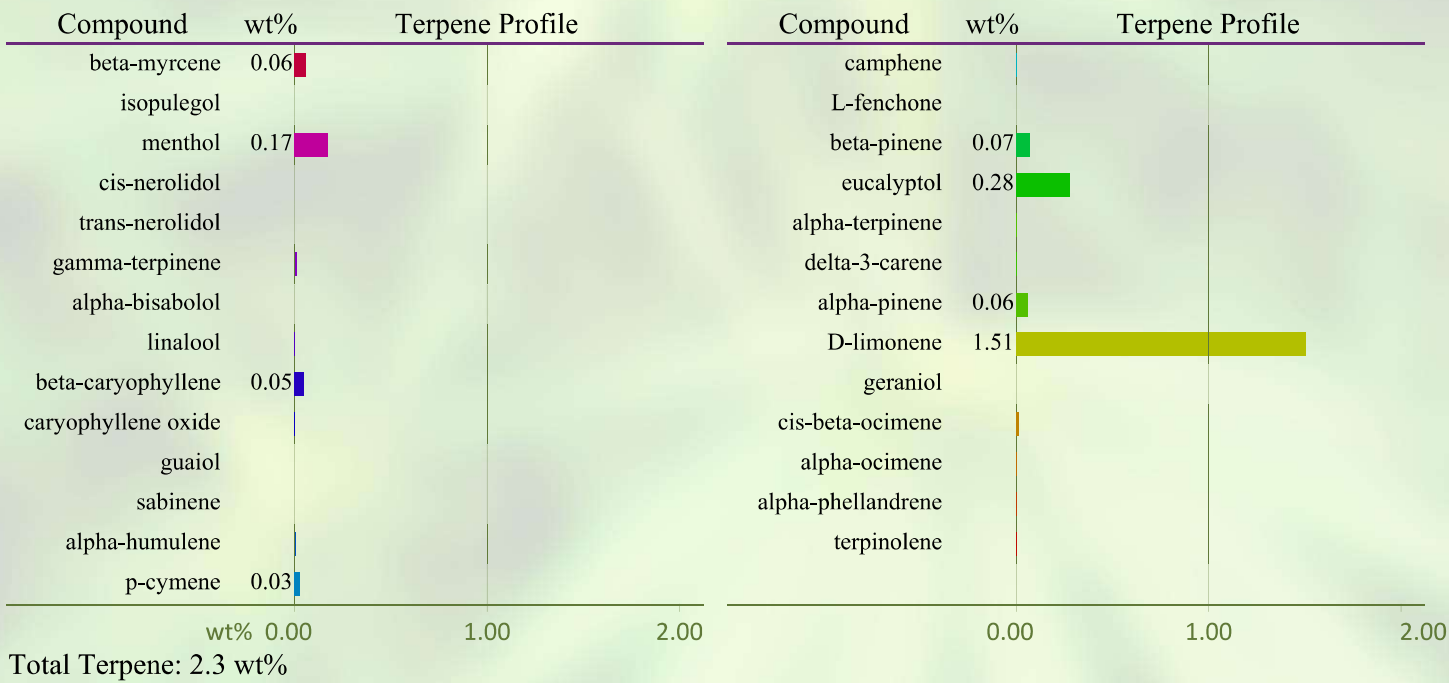
**TP: Terpenes Profile [WI-10-27]**

Analyst: JR

Test Date: 2/21/2020

The client sample was analyzed by Head-Space Gas Chromatography (HS-GC). The collected data was compared to data collected for certified reference standards at known concentrations. All values are semiquantitative estimates based on recorded peak areas relative to terpene calibration data.

**77966-TP**



**VC: Analysis of Volatile Organic Compounds [WI-10-28]**

Analyst: JR

Test Date: 2/19/2020

The client sample was analyzed by Head-Space Gas Chromatography (HS-GC). The collected data was compared to data collected for certified reference standards at known concentrations.

**77966-VC**

Compound	CAS	Amount <sup>1</sup>	Limit <sup>2</sup>	RL	Status
Propane	74-98-6	ND	1,000 ppm	100	PASS
Isobutane	75-28-5	ND	1,000 ppm	100	PASS
Butane	106-97-8	ND	1,000 ppm	100	PASS
Methanol	67-56-1	ND	3,000 ppm	100	PASS
Pentane	109-66-0	ND	5,000 ppm	100	PASS
Ethanol	64-17-5	ND	5,000 ppm	100	*
Acetone	67-64-1	ND	5,000 ppm	100	PASS
Isopropanol	67-63-0	ND	5,000 ppm	100	PASS
Acetonitrile	75-05-8	ND	410 ppm	100	PASS
Hexane	110-54-3	ND	290 ppm	100	PASS
Heptane	142-82-5	ND	5,000 ppm	100	PASS

1) ND = Not detected at a level greater than the Reporting Limit (RL).

2) In ppm, based on USP recommended limits for residual solvents, adopted by the Massachusetts Department of Public Health for cannabis concentrates and extracts on 3/31/16. Butane/Propane limits are based on limits established for state of Colorado.

(\*) For ethanol, as many formulations contain flavorings based on ethanol extracts of natural products, no status has been assigned.

**END OF REPORT**