



## CERTIFICATE OF INTERNAL ANALYSIS

**TYPE:** Phytocannabinoid-Rich Hemp Oil/ THC-free **TERPENE RESULTS\*:**

**BATCH No:** CONO19-34

**Date of Manufacture:** 25Feb2019

**Date of Analysis:** 08Mar2019

### POTENCY RESULTS:

Cannabinoid	Wt. (%)	(mg/g)
CBD	87.83	878.33
CBG	<0.03	<0.30
CBN	<0.03	<0.30
THC	ND**	ND**
CBC	<0.03	<0.30
THC-A	ND**	ND**
CBD-A	0.33	3.29
MAX THC	ND**	ND**
MAX CBD	88.12	881.22
TOTAL ACTIVE	88.12	881.22

### Residual Solvents\*:

Propane	Compliant with USP<467>	Pentane	Compliant with USP<467>
Isobutane	Compliant with USP<467>	Isopropanol	Compliant with USP<467>
Butane	Compliant with USP<467>	Hexane	Compliant with USP<467>
Ethanol	Compliant with USP<467>	Acetone	Compliant with USP<467>

### Heavy Metals\*:

Cadmium	Compliant with USP<233>
Lead	Compliant with USP<233>
Arsenic	Compliant with USP<233>
Mercury	Compliant with USP<233>

	Wt. (%)		Wt. (%)
$\beta$ -Bisabolene	1.0-3.0	Camphene	0.1-0.2
$\beta$ -Farnesene	1.0-2.0	E-Farnesene	0.1-0.2
Guaiol	0.5-2.0	Farnesol	0.1-0.2
$\beta$ -Maaliene	0.5-2.0	$\alpha$ -Bisabolol	< 0.1
Calarene	0.5-1.5	P-Cymene	< 0.1
$\beta$ -Caryophyllene	0.1-1.0	Linalool	< 0.1
$\alpha$ -Humulene	0.1-1.0	Myrcene	< 0.1
Cadinene	0.1-1.0	Phytol	< 0.1
$\alpha$ -Gurjunene	0.1-0.5	Isopulegol	< 0.1
d-Limonene	0.1-0.5	Terpinene	< 0.1
Nerolidol	0.1-0.5	Geraniol	< 0.1
$\alpha$ -Pinene	0.1-0.5	Myrcene	< 0.1
Aristolene	0.1-0.3	$\gamma$ -Terpinene	< 0.1
Eucalyptol	0.1-0.2	$\delta$ -3-Carene	< 0.1

### Pesticides\*:

Acequinocyl	ND***	Spinosad	ND***
Pyrethrium	ND***	Spirotetramat	ND***
Spiromesifen	ND***	Bifenazate	ND***
Abamectin	ND***	Fenoxycarb	ND***
Imidacloprid	ND***	Paclbutrazol	ND***

Test ID: 030819ZM

\*Batches are sent out regularly for testing, not all batches tested

\*\* ND = Not Detected using a validated high-performance liquid chromatography test method

\*\*\* Pesticides are tested by a third party lab, ND = Not Detected at the Reporting Limit (RL)

**SPECIAL NOTE:** Process enhancement has recently been implemented to remove excess pigmentation from the oil due to customer requests. While the color of the future oil batches will be golden to light amber, its composition and the broad spectrum characteristics remain unchanged.

### Batch Release:

Chemist: Sophia Aires

Manager: Kathryn Sears

*Sophia Aires* 11 Mar 2019

*Kathryn Sears* 11 Mar 2019

SA 11 Mar 2019  
**COPY**



**CBD Tincture Oil 1000mg Lot #  
JP031819T7 Exp date: 09/18/2020**

**Holistic Med LLC**

Test Result UID: ANL0025460

Lot Inventory ID:

Lab Inventory ID:

Date Tested: 08/05/2019

Serving Size: 1 Bottle (30ml) = 31.0 g



**Summary**

<b>1125.89 mg/s</b> Total Cannabinoids	<b>Pass</b> Microbial	<b>Pass</b> Mycotoxins	<b>Pass</b> Residual Solvents	<b>Not Tested</b> Pesticides	<b>Not Tested</b> Heavy Metals
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**Cannabinoids**

Testing method: HPLC-SOP 0011

Analyte	LOD	LOQ	Mass	Mass
Δ9-THC-A	0.000 mg/g	0.001 mg/g	ND mg/g	ND mg/s
Δ9-THC	0.000 mg/g	0.001 mg/g	ND mg/g	ND mg/s
Δ9-THCV	0.000 mg/g	0.001 mg/g	ND mg/g	ND mg/s
Δ8-THC	0.000 mg/g	0.001 mg/g	ND mg/g	ND mg/s
CBN	0.000 mg/g	0.001 mg/g	ND mg/g	ND mg/s
CBD-A	0.000 mg/g	0.001 mg/g	ND mg/g	ND mg/s
CBD	0.000 mg/g	0.001 mg/g	36.319 mg/g	1125.886 mg/s
CBDV-A	0.000 mg/g	0.001 mg/g	ND mg/g	ND mg/s
CBDV	0.000 mg/g	0.001 mg/g	ND mg/g	ND mg/s
CBG-A	0.000 mg/g	0.001 mg/g	ND mg/g	ND mg/s
CBG	0.000 mg/g	0.001 mg/g	ND mg/g	ND mg/s
CBC	0.000 mg/g	0.001 mg/g	ND mg/g	ND mg/s

**Terpenes**

Testing method: HSGCFID-SOP 0030

Analyte	LOD	LOQ	Mass	Mass
α-Pinene	0.00 mg/g	0.01 mg/g	ND mg/g	ND mg/s
β-Pinene	0.00 mg/g	0.01 mg/g	ND mg/g	ND mg/s
Myrcene	0.00 mg/g	0.01 mg/g	ND mg/g	ND mg/s
Ocimene	0.00 mg/g	0.01 mg/g	ND mg/g	ND mg/s
Limonene	0.00 mg/g	0.01 mg/g	ND mg/g	ND mg/s
Terpinolene	0.00 mg/g	0.01 mg/g	ND mg/g	ND mg/s
Linalool	0.00 mg/g	0.01 mg/g	ND mg/g	ND mg/s
Caryophyllene	0.00 mg/g	0.01 mg/g	ND mg/g	ND mg/s
Humulene	0.00 mg/g	0.01 mg/g	ND mg/g	ND mg/s

**ND mg/s**  
Total THC

**1125.89 mg/s**  
Total CBD

**ND mg/s**  
Total Terpenes

Total THC = Δ9-THC-A \* 0.877 + Δ9-THC  
Total CBD = CBD-A \* 0.877 + CBD  
LOQ = Limit of Quantification; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected

The values reported pertain only to the product tested.

<b>Not Tested</b> Moisture SOP-0009	<b>Not Tested</b> Water Activity SOP-0053	<b>Not Tested</b> Foreign Matter SOP-0010
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Analytical 360, LLC certifies that the results presented are true and correct to the best of our knowledge. These results relate only to the sample provided by the client to Analytical 360, LLC.

Reference Lab  
Analytical 360, LLC subcontracts the following assays:  
Mycotoxins performed by Capitol Analysis (WSLCB Lab #0022)  
Pesticides and Heavy Metals performed by Medicine Creek Analytics (WSLCB Lab #0018)

Approved By

*Paul D. Matthews, Ph.D.*

Paul Matthews, Ph.D.  
Executive Lab Director / Chief Science Officer



**CBD Tincture Oil 1000mg Lot #  
JP031819T7 Exp date: 09/18/2020**

**Holistic Med LLC**

Test Result UID: ANL0025460

Lot Inventory ID:

Lab Inventory ID:

Date Tested: 08/05/2019

**Microbial** Testing method: PLATE-SOP 0007

Analyte	LOD	LOQ	Action Level	Mass	Status
Bile-Tolerant Gram Negative Bacteria	20 CFU/g	85 CFU/g	1000 CFU/g	ND CFU/g	Pass
Salmonella spp.	-	-	Any Detected in 1 g		Pass
Escherichia coli	-	-	Any Detected in 1 g		Pass
Total Aerobic Bacteria	170 CFU/g	850 CFU/g	No Limit	ND CFU/g	
Total Yeast and Mold	170 CFU/g	850 CFU/g	No Limit	ND CFU/g	
Total Coliforms	20 CFU/g	85 CFU/g	No Limit	ND CFU/g	

**Mycotoxins** Testing method: ELISA-SOP 0054

Analyte	LOD	LOQ	Action Level	Mass	Status
Aflatoxins B1, B2, G1, G2	0.1 ppb	1.0 ppb	20 ppb	1.7 ppb	Pass
Ochratoxin A	0.1 ppb	1.0 ppb	20 ppb	ND ppb	Pass

**Heavy Metals** Testing method: ICPMS-SOP 0055

Analyte	LOD	LOQ	Action Level	Mass	Status
Arsenic	0.02 ug/5g	0.06 ug/5g	10 ug/5g	NT	NT
Cadmium	0.01 ug/5g	0.04 ug/5g	4.1 ug/5g	NT	NT
Lead	0.01 ug/5g	0.02 ug/5g	6 ug/5g	NT	NT
Mercury	0.02 ug/5g	0.07 ug/5g	2 ug/5g	NT	NT

Washington State I-502 Recreational Marijuana Microbial / Mycotoxins Action Levels

Counts not to exceed:

- 1,000 CFU/g Bile-Tolerant Gram Negative Bacteria for solvent extracts and edibles
- 10,000 CFU/g Bile-Tolerant Gram Negative Bacteria for flower, hash and kief
- *E coli* and *Salmonella* **not detected** in one gram for all products
- 20 ppb for Aflatoxins B1, B2, G1, G2, and Ochratoxin A for all products

LOQ = Limit of Quantification; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected  
CFU/g = Colony Forming Units Per Gram; ppm = Parts per Million; ppb = Parts per Billion  
TNTC = Too Numerous To Count

The values reported pertain only to the product tested.

**Pass**  
Microbial

**Pass**  
Mycotoxins

**Not Tested**  
Heavy Metals



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**Holistic Med LLC**

Test Result UID: ANL0025460

Lot Inventory ID:

Lab Inventory ID:

Date Tested: 08/05/2019

**Residual Solvents** Testing method: HSGCFID-SOP 0020

Analyte	LOD	LOQ	Action Level	Mass
Propane	1 ppm	20 ppm	5000 ppm	ND ppm
Isobutane	1 ppm	20 ppm	5000 ppm	ND ppm
Butane	1 ppm	20 ppm	5000 ppm	ND ppm
Ethanol	1 ppm	20 ppm	No Limit	NT
Acetone	1 ppm	20 ppm	5000 ppm	ND ppm
Toluene	1 ppm	20 ppm	890 ppm	ND ppm
Pentane	1 ppm	20 ppm	5000 ppm	ND ppm
Isopropanol	1 ppm	20 ppm	5000 ppm	ND ppm
Hexane	1 ppm	20 ppm	290 ppm	ND ppm
Heptane	1 ppm	20 ppm	5000 ppm	ND ppm
Isopentane	1 ppm	20 ppm	5000 ppm	ND ppm
Tetrahydrofuran	1 ppm	20 ppm	720 ppm	ND ppm
Methanol	1 ppm	20 ppm	3000 ppm	ND ppm
Acetonitrile	1 ppm	20 ppm	410 ppm	ND ppm
Dichloromethane	1 ppm	20 ppm	600 ppm	ND ppm
Ethyl Acetate	1 ppm	20 ppm	5000 ppm	ND ppm
Chloroform	1 ppm	2 ppm	2 ppm	ND ppm
Cyclohexane	1 ppm	20 ppm	3900 ppm	ND ppm
Benzene	1 ppm	2 ppm	2 ppm	ND ppm
Ethyl Benzene	1 ppm	20 ppm	2200 ppm	ND ppm
m + p Xylenes	1 ppm	20 ppm	2200 ppm	ND ppm
o Xylene	1 ppm	20 ppm	2200 ppm	ND ppm
Total Xylenes	1 ppm	20 ppm	2200 ppm	ND ppm

LOQ = Limit of Quantification; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected  
ppm = Parts Per Million

The values reported pertain only to the product tested.

**ND ppm**  
**Total Solvents**



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