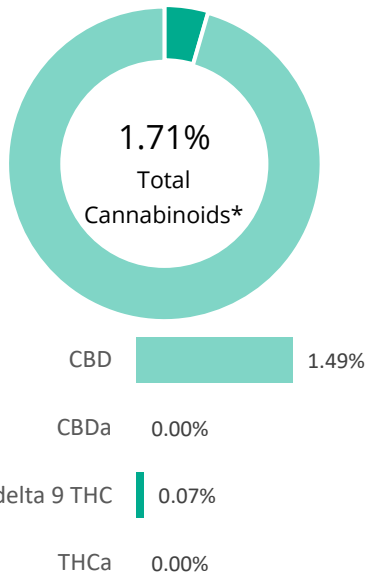


## Organic 400mg Hemp Seed Oil Tincture

<b>Batch ID:</b>	O144853	<b>Test ID:</b>	T000153249
<b>Type:</b>	Concentrate	<b>Submitted:</b>	07/22/2021 @ 10:45 AM
<b>Test:</b>	Potency	<b>Started:</b>	7/23/2021
<b>Method:</b>	TM14 (HPLC-DAD)	<b>Reported:</b>	7/26/2021

## CANNABINOID PROFILE



Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.01	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.02	0.07	0.7
Cannabidiolic acid (CBDA)	0.01	ND	ND
Cannabidiol (CBD)	0.01	1.49	14.9
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.02	ND	ND
Cannabinolic Acid (CBNA)	0.01	ND	ND
Cannabinol (CBN)	0.00	ND	ND
Cannabigerolic acid (CBGA)	0.01	ND	ND
Cannabigerol (CBG)	0.00	0.04	0.4
Tetrahydrocannabivarinic Acid (THCVA)	0.01	ND	ND
Tetrahydrocannabivarin (THCV)	0.00	ND	ND
Cannabidivarinic Acid (CBDVA)	0.01	ND	ND
Cannabidivarin (CBDV)	0.00	0.01	0.1
Cannabichromenic Acid (CBCA)	0.01	ND	ND
Cannabichromene (CBC)	0.01	0.10	1.0
<b>Total Cannabinoids</b>		<b>1.71</b>	<b>17.1</b>
Total Potential THC**		0.07	0.7
Total Potential CBD**		1.49	14.9

## NOTES:

N/A

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)

\* Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

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

$$\text{Total THC} = \text{THC} + (\text{THCa} * (0.877)) \text{ and}$$

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

ND = None Detected (Defined by Dynamic Range of the method)

## FINAL APPROVAL



 Daniel Weidensaul  
 26-Jul-2021  
 9:47 AM



 Rvan Weems  
 26-Jul-2021  
 9:48 AM

PREPARED BY / DATE

APPROVED BY / DATE

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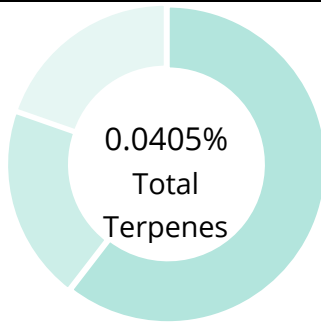


Certificate #4329.02

## Organic 400mg Hemp Seed Oil Tincture

<b>Batch ID:</b>	O144853	<b>Test ID:</b>	T000153250
<b>Type:</b>	Concentrate	<b>Submitted:</b>	07/22/2021 @ 10:45 AM
<b>Test:</b>	Terpenes	<b>Started:</b>	7/27/2021
<b>Method:</b>	TM22 (GC-MS)	<b>Reported:</b>	7/28/2021

## TERPENE PROFILE



Compound	%(w/w)	mg/g
(-)-alpha-Bisabolol	0.0078	0.078
Camphene	0.0000	0.000
delta-3-Carene	0.0000	0.000
beta-Caryophyllene	0.0240	0.240
(-)-Caryophyllene Oxide	0.0000	0.000
p-Cymene	0.0000	0.000
Eucalyptol	0.0000	0.000
Geraniol	0.0000	0.000
alpha-Humulene	0.0079	0.079
(-)-Isopulegol	0.0000	0.000
d-Limonene	0.0000	0.000
Linalool	0.0000	0.000
beta-Myrcene	0.0000	0.000
cis-Nerolidol	0.0008	0.008
trans-Nerolidol	0.0000	0.000
Ocimene	0.0000	0.000
beta-Ocimene	0.0000	0.000
alpha-Pinene	0.0000	0.000
(-)-beta-Pinene	0.0000	0.000
alpha-Terpinene	0.0000	0.000
gamma-Terpinene	0.0000	0.000
Terpinolene	0.0000	0.000
	<b>0.0405</b>	<b>0.405</b>



## PREDOMINANT TERPENES

alpha-Pinene	0.0000
(-)-beta-Pinene	0.0000
beta-Myrcene	0.0000
delta-3-Carene	0.0000
alpha-Terpinene	0.0000
d-Limonene	0.0000
Linalool	0.0000
beta-Caryophyllene	0.0240
alpha-Humulene	0.0079
(-)-alpha-Bisabolol	0.0078

## NOTES:

N/A

## FINAL APPROVAL

 Rvan Weems 28-Jul-2021 4:38 PM	 Daniel Weidensaul 28-Jul-2021 4:42 PM
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PREPARED BY / DATE

APPROVED BY / DATE

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A2LA Certificate Number 4329.02



Certificate #4329.02

## Organic 400mg Hemp Seed Oil Tincture


<b>Batch ID:</b>	O144853	<b>Test ID:</b>	T000153253
<b>Type:</b>	Other	<b>Submitted:</b>	07/22/2021 @ 10:45 AM
<b>Test:</b>	Metals	<b>Started:</b>	7/28/2021
<b>Method:</b>	TM19 (ICP-MS)	<b>Reported:</b>	7/28/2021

## HEAVY METALS

Analyte	Dynamic Range (ppm)	Result (ppm)
Arsenic	0.050 - 4.98	ND
Cadmium	0.042 - 4.21	ND
Mercury	0.044 - 4.38	ND
Lead	0.044 - 4.37	ND

\* ND = None Detected (Defined by Dynamic Range of the method)

## FINAL APPROVAL

  
Daniel Weidensaul  
28-Jul-2021  
6:23 PM  
Ryan Weems  
28-Jul-2021  
6:25 PM

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APPROVED BY / DATE

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## Organic 400mg Hemp Seed Oil Tincture

<b>Batch ID:</b>	O144853	<b>Test ID:</b>	T000153251
<b>Type:</b>	Concentrate	<b>Submitted:</b>	07/22/2021 @ 10:45 AM
<b>Test:</b>	Pesticides	<b>Started:</b>	7/26/2021
<b>Method:</b>	TM17 (UHPLC-QQQ LC MS/MS)	<b>Reported:</b>	7/28/2021


## PESTICIDE RESIDUE

Compound	Dynamic Range (ppb)	Result (ppb)	Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	40 - 2229	ND*	Malathion	268 - 2229	ND*
Acetamiprid	38 - 2229	ND*	Metalaxyl	37 - 2229	ND*
Abamectin	>244	ND*	Methiocarb	37 - 2229	ND*
Azoxystrobin	39 - 2229	ND*	Methomyl	39 - 2229	ND*
Bifenazate	37 - 2229	ND*	MGK 264 1	153 - 2229	ND*
Boscalid	38 - 2229	ND*	MGK 264 2	109 - 2229	ND*
Carbaryl	37 - 2229	ND*	Myclobutanil	42 - 2229	ND*
Carbofuran	41 - 2229	ND*	Naled	42 - 2229	ND*
Chlorantraniliprole	47 - 2229	ND*	Oxamyl	35 - 2229	ND*
Chlorpyrifos	41 - 2229	ND*	Paclobutrazol	41 - 2229	ND*
Clofentezine	259 - 2229	ND*	Permethrin	256 - 2229	ND*
Diazinon	264 - 2229	ND*	Phosmet	37 - 2229	ND*
Dichlorvos	>224	ND*	Prophos	237 - 2229	ND*
Dimethoate	38 - 2229	ND*	Propoxur	40 - 2229	ND*
E-Fenpyroximate	306 - 2229	ND*	Pyridaben	290 - 2229	ND*
Etofenprox	38 - 2229	ND*	Spinosad A	27 - 2229	ND*
Etoxazole	283 - 2229	ND*	Spinosad D	75 - 2229	ND*
Fenoxycarb	>38	ND*	Spiromesifen	>258	ND*
Fipronil	46 - 2229	ND*	Spirotetramat	>288	ND*
Flonicamid	40 - 2229	ND*	Spiroxamine 1	16 - 2229	ND*
Fludioxonil	>260	ND*	Spiroxamine 2	21 - 2229	ND*
Hexythiazox	35 - 2229	ND*	Tebuconazole	294 - 2229	ND*
Imazalil	249 - 2229	ND*	Thiacloprid	38 - 2229	ND*
Imidacloprid	41 - 2229	ND*	Thiamethoxam	38 - 2229	ND*
Kresoxim-methyl	41 - 2229	ND*	Trifloxystrobin	39 - 2229	ND*


\* ND = None Detected (Defined by Dynamic Range of the method)

N/A

## FINAL APPROVAL


 Taylor Brevik  
 28-Jul-2021  
 9:34 AM

PREPARED BY / DATE


 Sam Smith  
 28-Jul-2021  
 9:37 AM

APPROVED BY / DATE

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Certificate #4329.02

Prepared for:

**Organic 400mg Hemp Seed Oil Tincture**
**Casper's Oil**

Batch ID or Lot Number: <b>0144853</b>	Test: <b>Residual Solvents</b>	Reported: <b>7/23/21</b>	Location: 6705 Hwy 290 West PMB 50220 Austin, TX 78735
Matrix: N/A	Test ID: T000153254	Started: 7/23/21	USDA License: N/A
Status: N/A	Methods: TM04 (GC-MS): Residual Solvents	Received: 07/22/2021 @ 10:45 AM	Sampler ID: N/A

**RESIDUAL SOLVENTS DETERMINATION**

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
<b>Propane</b>	82 - 1633	*ND	
<b>Butanes</b> (Isobutane, n-Butane)	158 - 3163	*ND	
<b>Methanol</b>	61 - 1226	*ND	
<b>Pentane</b>	88 - 1761	*ND	
<b>Ethanol</b>	93 - 1864	*ND	
<b>Acetone</b>	96 - 1929	*ND	
<b>Isopropyl Alcohol</b>	108 - 2151	*ND	
<b>Hexane</b>	6 - 121	*ND	
<b>Ethyl Acetate</b>	98 - 1966	*ND	
<b>Benzene</b>	0 - 4	*ND	
<b>Heptanes</b>	94 - 1877	*ND	
<b>Toluene</b>	18 - 355	*ND	
<b>Xylenes</b> (m,p,o-Xylenes)	130 - 2594	*ND	



 Taylor Brevik  
23-Jul-21  
1:41 PM



 Sam Smith  
23-Jul-21  
1:43 PM

PREPARED BY / DATE

APPROVED BY / DATE

**Definitions**

\* ND = None Detected (Defined by Dynamic Range of the method)

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Certificate #4329.02

## Organic 400mg Hemp Seed Oil Tincture

<b>Batch ID:</b>	O144853	<b>Test ID:</b>	T000153252
<b>Matrix:</b>	General / Other	<b>Received:</b>	07/22/2021 @ 10:45 AM
<b>Test:</b>	Microbial Contaminants	<b>Started:</b>	7/22/2021
<b>Method:</b>	TM25 (qPCR) TM24, TM26, TM27, TM28 (Culture Plating)	<b>Reported:</b>	7/26/2021

## MICROBIAL CONTAMINANTS

Contaminant	Method	LOD	LLOQ	ULOQ	Result
<b>Total Aerobic Count*</b>	TM-26 Culture Plating	10 <sup>2</sup> CFU/g	10 <sup>3</sup> CFU/g	1.5x10 <sup>5</sup> CFU/g	<b>None Detected</b>
<b>Total Coliforms*</b>	TM-27 Culture Plating	10 <sup>1</sup> CFU/g	10 <sup>2</sup> CFU/g	1.5x10 <sup>4</sup> CFU/g	<b>None Detected</b>
<b>Total Yeast and Molds*</b>	TM-24 Culture Plating	10 <sup>1</sup> CFU/g	10 <sup>2</sup> CFU/g	1.5x10 <sup>4</sup> CFU/g	<b>None Detected</b>
<b>E. coli</b>	TM-28 Culture Plating	1 CFU/g	NA	NA	<b>Absent</b>
<b>E. coli (STEC)</b>	TM-25 PCR	1 CFU/g	NA	NA	<b>Absent</b>
<b>Salmonella</b>	TM-25 PCR	1 CFU/g	NA	NA	<b>Absent</b>

\* 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

## NOTES:

Free from visual mold, mildew, and foreign matter

## DEFINITIONS:


CFU/g = Colony Forming Units per Gram.

LOD = Limit of Detection

ULOQ = Upper Limit of Quantitation


LLOQ = Lower Limit of Quantitation

## FINAL APPROVAL



Robert Belfon  
 26-Jul-2021  
 2:39 PM

PREPARED BY / DATE



Sarah Henning  
 26-Jul-2021  
 4:30 PM

APPROVED BY / DATE

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