

Prepared for:

## Casper's Oil

6705 Hwy 290 West PMB 50220  
Austin, TX USA 78735

### Casper's Oil USDA Organic Full Spectrum 400

Batch ID or Lot Number: <b>o145697</b>	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 1 of 7
Reported: <b>17Aug2023</b>	Started: 17Aug2023	Received: 15Aug2023	


### Residual Solvents


Test ID: T000253087

Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	97 - 1940	ND	
Butanes (Isobutane, n-Butane)	196 - 3919	ND	
Methanol	62 - 1243	ND	
Pentane	99 - 1990	ND	
Ethanol	105 - 2097	ND	
Acetone	106 - 2119	ND	
Isopropyl Alcohol	110 - 2204	ND	
Hexane	6 - 123	ND	
Ethyl Acetate	105 - 2105	ND	
Benzene	0.2 - 4.5	ND	
Heptanes	108 - 2162	ND	
Toluene	19 - 385	ND	
Xylenes (m,p,o-Xylenes)	142 - 2837	ND	

### Final Approval

  
Sam Smith  
17Aug2023  
03:41:00 PM MDT  
PREPARED BY / DATE

  
Karen Winternheimer  
17Aug2023  
03:44:00 PM MDT  
APPROVED BY / DATE

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### Pesticides


Test ID: T000253084

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	202 - 2627	ND		Malathion	282 - 2763	ND
Acephate	44 - 2777	ND		Metalaxyl	44 - 2750	ND
Acetamiprid	41 - 2668	ND		Methiocarb	45 - 2694	ND
Azoxystrobin	45 - 2726	ND		Methomyl	41 - 2701	ND
Bifenazate	43 - 2720	ND		MGK 264 1	174 - 1643	ND
Boscalid	44 - 2702	ND		MGK 264 2	105 - 1078	ND
Carbaryl	39 - 2721	ND		Myclobutanil	54 - 2664	ND
Carbofuran	42 - 2717	ND		Naled	45 - 2741	ND
Chlorantraniliprole	43 - 2673	ND		Oxamyl	43 - 2702	ND
Chlorpyrifos	47 - 2827	ND		Paclobutrazol	45 - 2714	ND
Clofentezine	276 - 2738	ND		Permethrin	285 - 2790	ND
Diazinon	286 - 2754	ND		Phosmet	40 - 2734	ND
Dichlorvos	273 - 2719	ND		Prophos	294 - 2642	ND
Dimethoate	42 - 2677	ND		Propoxur	41 - 2700	ND
E-Fenpyroximate	293 - 2807	ND		Pyridaben	296 - 2749	ND
Etofenprox	42 - 2713	ND		Spinosad A	32 - 2098	ND
Etoxazole	292 - 2764	ND		Spinosad D	63 - 686	ND
Fenoxycarb	41 - 2710	ND		Spiromesifen	278 - 2783	ND
Fipronil	75 - 2626	ND		Spirotetramat	283 - 2754	ND
Flonicamid	48 - 2664	ND		Spiroxamine 1	17 - 1139	ND
Fludioxonil	307 - 2676	ND		Spiroxamine 2	21 - 1531	ND
Hexythiazox	40 - 2769	ND		Tebuconazole	289 - 2738	ND
Imazalil	271 - 2791	ND		Thiacloprid	44 - 2650	ND
Imidacloprid	51 - 2714	ND		Thiamethoxam	43 - 2706	ND
Kresoxim-methyl	47 - 2741	ND		Trifloxystrobin	44 - 2695	ND

### Final Approval

  
Karen Winternheimer  
18Aug2023  
11:06:00 AM MDT  
PREPARED BY / DATE

  
Sam Smith  
18Aug2023  
11:10:00 AM MDT  
APPROVED BY / DATE

Prepared for:

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Batch ID or Lot Number: <b>o145697</b>	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 3 of 7
Reported: <b>17Aug2023</b>	Started: 17Aug2023	Received: 15Aug2023	


### Cannabinoids


Test ID: T000253082

Methods: TM14 (HPLC-DAD)

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	2.287	5.413	9.620	0.30	# of Servings = 1, Sample Weight=28g
Cannabichromenic Acid (CBCA)	2.092	4.951	ND	ND	
Cannabidiol (CBD)	6.266	14.214	438.480	15.70	
Cannabidiolic Acid (CBDA)	6.427	14.578	ND	ND	
Cannabidivarin (CBDV)	1.482	3.362	ND	ND	
Cannabidivarinic Acid (CBDVA)	2.681	6.081	ND	ND	
Cannabigerol (CBG)	1.299	3.074	11.030	0.40	
Cannabigerolic Acid (CBGA)	5.429	12.848	ND	ND	
Cannabinol (CBN)	1.694	4.010	ND	ND	
Cannabinolic Acid (CBNA)	3.704	8.766	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	6.468	15.307	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	5.874	13.902	18.190	0.60	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	5.204	12.317	ND	ND	
Tetrahydrocannabivarin (THCV)	1.181	2.796	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	4.590	10.864	ND	ND	
<b>Total Cannabinoids</b>			<b>477.320</b>	<b>17.00</b>	
Total Potential THC			18.190	0.60	
Total Potential CBD			438.480	15.70	

### Final Approval

  
 Karen Winternheimer  
 19Aug2023  
 10:47:00 AM MDT  
 PREPARED BY / DATE

  
 Sam Smith  
 19Aug2023  
 10:48:00 AM MDT  
 APPROVED BY / DATE

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Batch ID or Lot Number: <b>o145697</b>	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 4 of 7
Reported: <b>17Aug2023</b>	Started: 17Aug2023	Received: 15Aug2023	

### Mycotoxins


Test ID: T000253088


Methods: TM18 (UHPLC-QQQ)

LCMS/MS: Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	2.94 - 130.62	ND	N/A
Aflatoxin B1	0.92 - 34.22	ND	
Aflatoxin B2	0.99 - 34.42	ND	
Aflatoxin G1	0.99 - 34.03	ND	
Aflatoxin G2	1.12 - 34.26	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

### Final Approval

  
Samantha Smith  
21Aug2023  
07:54:00 AM MDT  
PREPARED BY / DATE

  
Karen Winternheimer  
21Aug2023  
07:57:00 AM MDT  
APPROVED BY / DATE

### Microbial Contaminants


Test ID: T000253085

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

  
Eden Thompson-Wright  
19Aug2023  
12:56:00 PM MDT  
PREPARED BY / DATE

  
Brianne Maillot  
21Aug2023  
11:00:00 AM MDT  
APPROVED BY / DATE

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**Casper's Oil USDA Organic Full Spectrum 400**

Batch ID or Lot Number: <b>o145697</b>	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 5 of 7
Reported: <b>17Aug2023</b>	Started: 17Aug2023	Received: 15Aug2023	

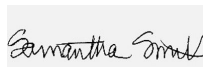
**Heavy Metals**

Test ID: T000253086

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.26	ND	
Cadmium	0.05 - 5.22	ND	
Mercury	0.04 - 4.45	ND	
Lead	0.05 - 5.12	ND	

**Final Approval**

  
Sam Smith  
21Aug2023  
01:53:00 PM MDT  
PREPARED BY / DATE

  
Karen Winternheimer  
21Aug2023  
05:11:00 PM MDT  
APPROVED BY / DATE

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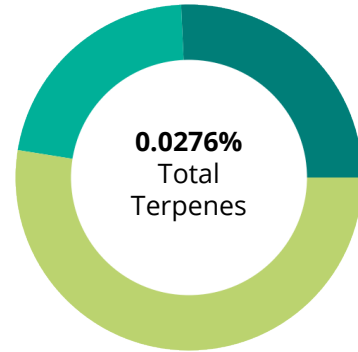
Batch ID or Lot Number: <b>o145697</b>	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 6 of 7
Reported: <b>17Aug2023</b>	Started: 17Aug2023	Received: 15Aug2023	

### Terpenes

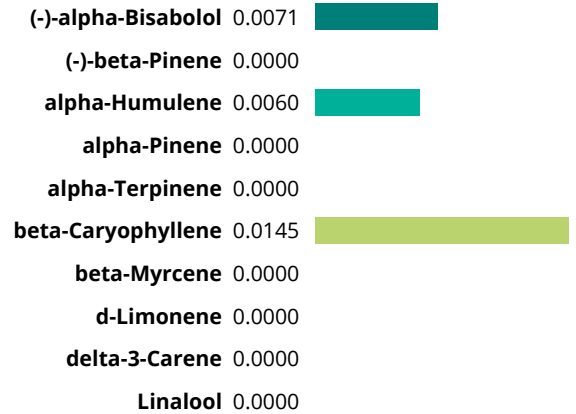
Test ID: T000253083

Methods: TM22 (GC-MS)

	%(w/w)	(mg/g)
(-)-alpha-Bisabolol	0.0071	0.071
(-)-beta-Pinene	0.0000	0.0000
(-)-Caryophyllene Oxide	0.0000	0.0000
(-)-Isopulegol	0.0000	0.0000
alpha-Humulene	0.0060	0.060
alpha-Pinene	0.0000	0.0000
alpha-Terpinene	0.0000	0.0000
beta-Caryophyllene	0.0145	0.145
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	0.0000	0.0000
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>0.0276</b>	<b>0.2760</b>




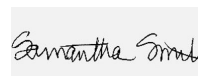
#### PREDOMINANT TERPENES



#### Notes

#### Final Approval

  
Karen Winternheimer  
22Aug2023  
10:02:00 AM MDT  
PREPARED BY / DATE

  
Sam Smith  
22Aug2023  
10:04:00 AM MDT  
APPROVED BY / DATE

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<https://results.botanacor.com/api/v1/coas/uuid/e1b396af-d317-4e9d-932d-52f08aee3634>

### 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 Accredited by A2LA. 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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