



12423 NE Whitaker Way  
 Portland, OR 97230  
 503-254-1794



**Report Number:** 20-004349/D03.R00  
**Report Date:** 05/01/2020  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 04/27/20 13:27

**Customer:** Trace Minerals Research  
**Product identity:** CBD Soft Gel 20mg  
**Client/Metric ID:** Lot 0073A  
**Laboratory ID:** 20-004349-0002

**Sample Date:** 04/22/20

### Summary

#### Potency:

Analyte	Result	Limits	Units		
CBC	0.101		%		
CBD	4.11		%		
CBDV <sup>†</sup>	0.0384		%		
CBG <sup>†</sup>	0.123		%		
CBL <sup>†</sup>	0.0135		%		
CBN	0.00393		%		
Δ <sup>9</sup> -THC	0.180		%		
THCV <sup>†</sup>	0.0107		%		
				CBD-Total (%)	4.11%
				CBD-Total per 0.92g	37.8 mg/0.92g
				CBD-Total per 27.6g	1130 mg/27.6g
				THC-Total (%)	0.180%
Analyte per 0.92g	Result	Limits	Units		
CBC per 0.92g	0.929		mg/0.92g		
CBD per 0.92g	37.8		mg/0.92g		
CBDV per 0.92g	0.353		mg/0.92g		
CBG per 0.92g	1.13		mg/0.92g		
CBL per 0.92g	0.124		mg/0.92g		
CBN per 0.92g	0.0362		mg/0.92g		
Δ <sup>9</sup> -THC per 0.92g	1.66		mg/0.92g		
THCV per 0.92g	0.0984		mg/0.92g		
Analyte per 27.6g	Result	Limits	Units		
CBC per 27.6g	27.9		mg/27.6g		
CBD per 27.6g	1130		mg/27.6g		
CBDV per 27.6g	10.6		mg/27.6g		
CBG per 27.6g	33.9		mg/27.6g		
CBL per 27.6g	3.73		mg/27.6g		
CBN per 27.6g	1.08		mg/27.6g		
Δ <sup>9</sup> -THC per 27.6g	49.7		mg/27.6g		
THCV per 27.6g	2.95		mg/27.6g		

#### Residual Solvents:

All analytes passing and less than LOQ.

#### Pesticides:

All analytes passing and less than LOQ.

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**Terpenes:**

Analyte	Percent by weight	Percent of Total	Analyte	Percent by weight	Percent of Total
farnesene <sup>†</sup>	0.0380	37.62%	β-Caryophyllene <sup>†</sup>	0.0379	37.52%
α-Bisabolol <sup>†</sup>	0.0246	24.36%	<b>Total Terpenes<sup>†</sup></b>	<b>0.101</b>	<b>100.00%</b>

**Metals:**

*Less than LOQ for all analytes.*

**Microbiology:**

*Less than LOQ for all analytes.*

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**Customer:** Trace Minerals Research

**Product identity:** CBD Soft Gel 20mg  
**Client/Metric ID:** Lot 0073A  
**Sample Date:** 04/22/20  
**Laboratory ID:** 20-004349-0002  
**Relinquished by:** FedEx  
**Temp:** 21.4 °C

### Sample Results

Potency					
Method J AOAC 2015 V98-6 (mod) Batch: 2003680 Analyze: 4/28/20 8:00:00 AM					
Analyte	Result	Limits	Units	LOQ	Notes
CBC	0.101		%	0.0031	
CBC-A†	< LOQ		%	0.0031	
CBC-Total†	0.101		%	0.0059	
CBD	4.11		%	0.0314	
CBD-A	< LOQ		%	0.0031	
CBD-Total	4.11		%	0.0342	
CBDV†	0.0384		%	0.0031	
CBDV-A†	< LOQ		%	0.0031	
CBDV-Total†	0.0384		%	0.0059	
CBG†	0.123		%	0.0031	
CBG-A†	< LOQ		%	0.0031	
CBG-Total	0.123		%	0.0059	
CBL†	0.0135		%	0.0031	
CBN	0.00393		%	0.0031	
Δ8-THC†	< LOQ		%	0.0031	
Δ9-THC	0.180		%	0.0031	
THC-A	< LOQ		%	0.0031	
THC-Total	0.180		%	0.0059	
THCV†	0.0107		%	0.0031	
THCV-A†	< LOQ		%	0.0031	
THCV-Total†	0.0107		%	0.0059	
<b>Total Cannabinoids†</b>	<b>4.58</b>		%		

Potency per 0.92g					
Method J AOAC 2015 V98-6 (mod) Batch: 2003680 Analyze: 4/28/20 8:00:00 AM					
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 0.92g	0.929		mg/0.92g	0.0289	
CBC-A per 0.92g	< LOQ		mg/0.92g	0.0289	
CBC-Total per 0.92g	0.929		mg/0.92g	0.0542	
CBD per 0.92g	37.8		mg/0.92g	0.289	
CBD-A per 0.92g	< LOQ		mg/0.92g	0.0289	
CBD-Total per 0.92g	37.8		mg/0.92g	0.314	
CBDV per 0.92g	0.353		mg/0.92g	0.0289	
CBDV-A per 0.92g	< LOQ		mg/0.92g	0.0289	
CBDV-Total per 0.92g	0.353		mg/0.92g	0.0539	

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Potency per 0.92g Method J AOAC 2015 V98-6 (mod) Batch: 2003680 Analyze: 4/28/20 8:00:00 AM

Analyte	Result	Limits	Units	LOQ	Notes
CBG per 0.92g	1.13		mg/0.92g	0.0289	
CBG-A per 0.92g	< LOQ		mg/0.92g	0.0289	
CBG-Total per 0.92g	1.13		mg/0.92g	0.0539	
CBL per 0.92g	0.124		mg/0.92g	0.0289	
CBN per 0.92g	0.0362		mg/0.92g	0.0289	
Δ8-THC per 0.92g	< LOQ		mg/0.92g	0.0289	
Δ9-THC per 0.92g	1.66		mg/0.92g	0.0289	
THC-A per 0.92g	< LOQ		mg/0.92g	0.0289	
THC-Total per 0.92g	1.66		mg/0.92g	0.0542	
THCV per 0.92g	0.0984		mg/0.92g	0.0289	
THCV-A per 0.92g	< LOQ		mg/0.92g	0.0289	
THCV-Total per 0.92g	0.0984		mg/0.92g	0.0543	
<b>Total Cannabinoids 0.92g<sup>†</sup></b>	<b>42.1</b>		mg/0.92g		

Potency per 27.6g Method J AOAC 2015 V98-6 (mod) Batch: 2003680 Analyze: 4/28/20 8:00:00 AM

Analyte	Result	Limits	Units	LOQ	Notes
CBC per 27.6g	27.9		mg/27.6g	0.867	
CBC-A per 27.6g	< LOQ		mg/27.6g	0.867	
CBC-Total per 27.6g	27.9		mg/27.6g	1.63	
CBD per 27.6g	1130		mg/27.6g	8.67	
CBD-A per 27.6g	< LOQ		mg/27.6g	0.867	
CBD-Total per 27.6g	1130		mg/27.6g	9.43	
CBDV per 27.6g	10.6		mg/27.6g	0.867	
CBDV-A per 27.6g	< LOQ		mg/27.6g	0.867	
CBDV-Total per 27.6g	10.6		mg/27.6g	1.62	
CBG per 27.6g	33.9		mg/27.6g	0.867	
CBG-A per 27.6g	< LOQ		mg/27.6g	0.867	
CBG-Total per 27.6g	33.9		mg/27.6g	1.62	
CBL per 27.6g	3.73		mg/27.6g	0.867	
CBN per 27.6g	1.08		mg/27.6g	0.867	
Δ8-THC per 27.6g	< LOQ		mg/27.6g	0.867	
Δ9-THC per 27.6g	49.7		mg/27.6g	0.867	
THC-A per 27.6g	< LOQ		mg/27.6g	0.867	
THC-Total per 27.6g	49.7		mg/27.6g	1.63	
THCV per 27.6g	2.95		mg/27.6g	0.867	
THCV-A per 27.6g	< LOQ		mg/27.6g	0.867	
THCV-Total per 27.6g	2.95		mg/27.6g	1.63	
<b>Total Cannabinoids 27.6g<sup>†</sup></b>	<b>1260</b>		mg/27.6g		

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
E.coli	< LOQ		cfu/g	10	2003559	04/29/20	AOAC 991.14 (Petrifilm)	X
Total Coliforms	< LOQ		cfu/g	10	2003559	04/29/20	AOAC 991.14 (Petrifilm)	X
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2003560	04/29/20	AOAC 2014.05 (RAPID)	X
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2003560	04/29/20	AOAC 2014.05 (RAPID)	X

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Solvents		Method EPA5021A				Units µg/g	Batch 2003566	Analyze 04/28/20 08:00 AM			
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
1,4-Dioxane	< LOQ	380	100	pass		2-Butanol	< LOQ	5000	200	pass	
2-Ethoxyethanol	< LOQ	160	30.0	pass		2-Methylbutane	< LOQ		200		
2-Methylpentane	< LOQ		30.0			2-Propanol (IPA)	< LOQ	5000	200	pass	
2,2-Dimethylbutane	< LOQ		30.0			2,2-Dimethylpropane	< LOQ		200		
2,3-Dimethylbutane	< LOQ		30.0			3-Methylpentane	< LOQ		30.0		
Acetone	< LOQ	5000	200	pass		Acetonitrile	< LOQ	410	100	pass	
Benzene	< LOQ	2.00	1.00	pass		Butanes (sum)	< LOQ	5000	400	pass	
Cyclohexane	< LOQ	3880	200	pass		Ethyl acetate	< LOQ	5000	200	pass	
Ethyl benzene	< LOQ		200			Ethyl ether	< LOQ	5000	200	pass	
Ethylene glycol	< LOQ	620	200	pass		Ethylene oxide	< LOQ	50.0	30.0	pass	
Hexanes (sum)	< LOQ	290	150	pass		Isopropyl acetate	< LOQ	5000	200	pass	
Isopropylbenzene	< LOQ	70.0	30.0	pass		m,p-Xylene	< LOQ		200		
Methanol	< LOQ	3000	200	pass		Methylene chloride	< LOQ	600	200	pass	
Methylpropane	< LOQ		200			n-Butane	< LOQ		200		
n-Heptane	< LOQ	5000	200	pass		n-Hexane	< LOQ		30.0		
n-Pentane	< LOQ		200			o-Xylene	< LOQ		200		
Pentanes (sum)	< LOQ	5000	600	pass		Propane	< LOQ	5000	200	pass	
Tetrahydrofuran	< LOQ	720	100	pass		Toluene	< LOQ	890	100	pass	
Total Xylenes	< LOQ		400			Total Xylenes and Ethyl	< LOQ	2170	600	pass	

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Pesticides											
Method AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 2003673 Analyze 04/30/20 11:40 AM											
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin	< LOQ	0.50	0.250	pass		Acephate	< LOQ	0.40	0.250	pass	
Acequinocyl	< LOQ	2.0	1.00	pass		Acetamiprid	< LOQ	0.20	0.100	pass	
Aldicarb	< LOQ	0.40	0.200	pass		Azoxystrobin	< LOQ	0.20	0.100	pass	
Bifenazate	< LOQ	0.20	0.100	pass		Bifenthrin	< LOQ	0.20	0.100	pass	
Boscalid	< LOQ	0.40	0.200	pass		Carbaryl	< LOQ	0.20	0.100	pass	
Carbofuran	< LOQ	0.20	0.100	pass		Chlorantraniliprole	< LOQ	0.20	0.100	pass	
Chlorfenapyr	< LOQ	1.0	0.500	pass		Chlorpyrifos	< LOQ	0.20	0.100	pass	
Clofentezine	< LOQ	0.20	0.100	pass		Cyfluthrin	< LOQ	1.0	0.500	pass	
Cypermethrin	< LOQ	1.0	0.500	pass		Daminozide	< LOQ	1.0	0.500	pass	
Diazinon	< LOQ	0.20	0.100	pass		Dichlorvos	< LOQ	1.0	0.500	pass	
Dimethoate	< LOQ	0.20	0.100	pass		Ethoprophos	< LOQ	0.20	0.100	pass	
Etofenprox	< LOQ	0.40	0.200	pass		Etoxazole	< LOQ	0.20	0.100	pass	
Fenoxycarb	< LOQ	0.20	0.100	pass		Fenpyroximate	< LOQ	0.40	0.200	pass	
Fipronil	< LOQ	0.40	0.200	pass		Fonicamid	< LOQ	1.0	0.400	pass	
Fludioxonil	< LOQ	0.40	0.200	pass		Hexythiazox	< LOQ	1.0	0.400	pass	
Imazalil	< LOQ	0.20	0.100	pass		Imidacloprid	< LOQ	0.40	0.200	pass	
Kresoxim-methyl	< LOQ	0.40	0.200	pass		Malathion	< LOQ	0.20	0.100	pass	
Metalaxyl	< LOQ	0.20	0.100	pass		Methiocarb	< LOQ	0.20	0.100	pass	
Methomyl	< LOQ	0.40	0.200	pass		MGK-264	< LOQ	0.20	0.100	pass	
Myclobutanil	< LOQ	0.20	0.100	pass		Naled	< LOQ	0.50	0.250	pass	
Oxamyl	< LOQ	1.0	0.500	pass		Paclobutrazole	< LOQ	0.40	0.200	pass	
Parathion-Methyl	< LOQ	0.20	0.200	pass		Permethrin	< LOQ	0.20	0.100	pass	
Phosmet	< LOQ	0.20	0.100	pass		Piperonyl butoxide	< LOQ	2.0	1.00	pass	
Prallethrin	< LOQ	0.20	0.200	pass		Propiconazole	< LOQ	0.40	0.200	pass	
Propoxur	< LOQ	0.20	0.100	pass		Pyrethrin I (total)	< LOQ	1.0	0.500	pass	
Pyridaben	< LOQ	0.20	0.100	pass		Spinosad	< LOQ	0.20	0.100	pass	
Spiromesifen	< LOQ	0.20	0.100	pass		Spirotetramat	< LOQ	0.20	0.100	pass	
Spiroxamine	< LOQ	0.40	0.200	pass		Tebuconazole	< LOQ	0.40	0.200	pass	
Thiacloprid	< LOQ	0.20	0.100	pass		Thiamethoxam	< LOQ	0.20	0.100	pass	
Trifloxystrobin	< LOQ	0.20	0.100	pass							

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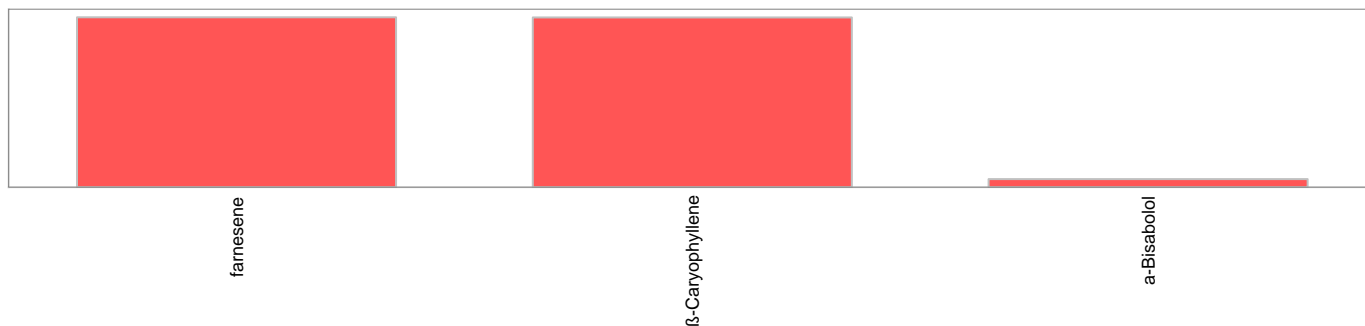


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Terpenes				Method J AOAC 2015 V98-6	Units %	Batch 2003565	Analyze 04/28/20 07:40 AM		
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
farnesene <sup>†</sup>	0.0380	0.020	37.62%		β-Caryophyllene <sup>†</sup>	0.0379	0.020	37.52%	
α-Bisabolol <sup>†</sup>	0.0246	0.020	24.36%		(-)-α-Terpineol <sup>†</sup>	< LOQ	0.020	0.00%	
(-)-caryophyllene oxide <sup>†</sup>	< LOQ	0.020	0.00%		(-)-Guaiol <sup>†</sup>	< LOQ	0.020	0.00%	
(-)-Isopulegol <sup>†</sup>	< LOQ	0.020	0.00%		(-)-β-Pinene <sup>†</sup>	< LOQ	0.020	0.00%	
(+)-Borneol <sup>†</sup>	< LOQ	0.020	0.00%		(+)-Cedrol <sup>†</sup>	< LOQ	0.020	0.00%	
(+)-fenchol <sup>†</sup>	< LOQ	0.020	0.00%		(+)-Pulegone <sup>†</sup>	< LOQ	0.020	0.00%	
(±)-Camphor <sup>†</sup>	< LOQ	0.020	0.00%		(±)-cis-Nerolidol <sup>†</sup>	< LOQ	0.020	0.00%	
(±)-fenchone <sup>†</sup>	< LOQ	0.020	0.00%		(±)-trans-Nerolidol <sup>†</sup>	< LOQ	0.020	0.00%	
(R)-(+)-Limonene <sup>†</sup>	< LOQ	0.020	0.00%		a-cedrene <sup>†</sup>	< LOQ	0.020	0.00%	
α-phellandrene <sup>†</sup>	< LOQ	0.020	0.00%		α-pinene <sup>†</sup>	< LOQ	0.020	0.00%	
α-Terpinene <sup>†</sup>	< LOQ	0.020	0.00%		Camphene <sup>†</sup>	< LOQ	0.020	0.00%	
cis-β-Ocimene <sup>†</sup>	< LOQ	0.006	0.00%		d-3-Carene <sup>†</sup>	< LOQ	0.020	0.00%	
Eucalyptol <sup>†</sup>	< LOQ	0.020	0.00%		γ-Terpinene <sup>†</sup>	< LOQ	0.020	0.00%	
Geraniol <sup>†</sup>	< LOQ	0.020	0.00%		Geranyl acetate <sup>†</sup>	< LOQ	0.020	0.00%	
Humulene <sup>†</sup>	< LOQ	0.020	0.00%		Isoborneol <sup>†</sup>	< LOQ	0.020	0.00%	
Linalool <sup>†</sup>	< LOQ	0.020	0.00%		Menthol <sup>†</sup>	< LOQ	0.020	0.00%	
nerol <sup>†</sup>	< LOQ	0.020	0.00%		p-Cymene <sup>†</sup>	< LOQ	0.020	0.00%	
Sabinene <sup>†</sup>	< LOQ	0.020	0.00%		Sabinene hydrate <sup>†</sup>	< LOQ	0.020	0.00%	
β-Myrcene <sup>†</sup>	< LOQ	0.020	0.00%		Terpinolene <sup>†</sup>	< LOQ	0.020	0.00%	
trans-β-Ocimene <sup>†</sup>	< LOQ	0.013	0.00%		valencene <sup>†</sup>	< LOQ	0.020	0.00%	
<b>Total Terpenes</b>	<b>0.101</b>								



Metals									
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes	
Arsenic	< LOQ		mg/kg	0.0147	2003610	04/28/20	AOAC 2013.06 (mod.)	X	
Cadmium	< LOQ		mg/kg	0.0147	2003610	04/28/20	AOAC 2013.06 (mod.)	X	
Lead	< LOQ		mg/kg	0.0147	2003610	04/28/20	AOAC 2013.06 (mod.)	X	
Mercury	< LOQ		mg/kg	0.00736	2003610	04/28/20	AOAC 2013.06 (mod.)	X	

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**Mycotoxins**

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Aflatoxin B1†	< LOQ		µg/kg	5.00	2003587	04/28/20	AOAC 2007.01 & EN 15662	
Aflatoxin B2†	< LOQ		µg/kg	5.00	2003587	04/28/20	AOAC 2007.01 & EN 15662	
Aflatoxin G1†	< LOQ		µg/kg	5.00	2003587	04/28/20	AOAC 2007.01 & EN 15662	
Aflatoxin G2†	< LOQ		µg/kg	5.00	2003587	04/28/20	AOAC 2007.01 & EN 15662	
Deoxynivalenol†	< LOQ		µg/kg	200	2003587	04/28/20	AOAC 2007.01 & EN 15662	
Fumonisin B1†	< LOQ		µg/kg	200	2003587	04/28/20	AOAC 2007.01 & EN 15662	
Fumonisin B2†	< LOQ		µg/kg	200	2003587	04/28/20	AOAC 2007.01 & EN 15662	
HT2-Toxin†	< LOQ		µg/kg	40.0	2003587	04/28/20	AOAC 2007.01 & EN 15662	
Nivalenol†	< LOQ		µg/kg	400	2003587	04/28/20	AOAC 2007.01 & EN 15662	
Ochratoxin A†	< LOQ		µg/kg	5.00	2003587	04/28/20	AOAC 2007.01 & EN 15662	
Ochratoxin B†	< LOQ		µg/kg	2.00	2003587	04/28/20	AOAC 2007.01 & EN 15662	
T2-Toxin†	< LOQ		µg/kg	20.0	2003587	04/28/20	AOAC 2007.01 & EN 15662	
Zearalenone†	< LOQ		µg/kg	200	2003587	04/28/20	AOAC 2007.01 & EN 15662	

Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.





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**Report Number:** 20-004349/D03.R00  
**Report Date:** 05/01/2020  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 04/27/20 13:27

These test results are representative of the individual sample selected and submitted by the client.

**Abbreviations**

**Limits:** Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220

**Limit(s) of Quantitation (LOQ):** The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

† = Analyte not NELAP accredited.

**Units of Measure**

cfu/g = Colony forming units per gram

g = Gram

µg/g = Microgram per gram

µg/kg = Micrograms per kilogram = parts per billion (ppb)

mg/kg = Milligram per kilogram = parts per million (ppm)

mg/0.92g = Milligram per 0.92g

mg/27.6g = Milligram per 27.6g

% = Percentage of sample

% wt = µg/g divided by 10,000

**Glossary of Qualifiers**

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner  
General Manager