



Customer: Trace Minerals Research
Product identity: CBD Softgel 20mg
Laboratory ID: 19-012461-0001

Client/Metric ID: Lot 9431
Sample Date: 10/08/19

Summary

Potency:

Analyte per 0.92g	Result	Limits	Units	Status	
CBC per 0.92g [†]	0.251		mg/0.92g		CBD-Total per 0.92g 40.2 mg/0.92g
CBD per 0.92g	40.2		mg/0.92g		
CBDV per 0.92g [†]	0.364		mg/0.92g		THC-Total per 0.92g 1.44 mg/0.92g
CBG per 0.92g [†]	1.33		mg/0.92g		
CBL per 0.92g [†]	0.104		mg/0.92g		CBD-Total per 27.6g 1210 mg/27.6g
CBN per 0.92g	0.0403		mg/0.92g		
Δ9-THC per 0.92g	1.43		mg/0.92g		THC-Total per 27.6g 43.2 mg/27.6g
					(Reported in milligrams per serving)
Analyte per 27.6g	Result	Limits	Units	Status	
CBC per 27.6g [†]	7.53		mg/27.6g		
CBD per 27.6g	1210		mg/27.6g		
CBDV per 27.6g [†]	10.9		mg/27.6g		
CBG per 27.6g [†]	40.0		mg/27.6g		
CBL per 27.6g [†]	3.12		mg/27.6g		
CBN per 27.6g	1.21		mg/27.6g		
Δ9-THC per 27.6g	42.8		mg/27.6g		

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

All analytes passing and less than LOQ.

Terpenes:

Less than LOQ for all analytes.

Metals:

Analyte	Result	Limits
Lead	0.0696	

Microbiology:

Less than LOQ for all analytes.



Customer: Trace Minerals Research

Product identity: CBD Softgel 20mg
Client/Metric ID: Lot 9431
Sample Date: 10/08/19
Laboratory ID: 19-012461-0001
Relinquished by: Received By Mail
Temp: 19.2 °C
Serving Size #1: 0.92 g
Serving Size #2: 27.6 g

Sample Results

Potency per 0.92g		Batch: 1909369					
Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBC per 0.92g [†]	0.251		mg/0.92g	0.0307	10/18/19	J AOAC 2015 V98-6	
CBC-A per 0.92g [†]	< LOQ		mg/0.92g	0.0307	10/18/19	J AOAC 2015 V98-6	
CBC-Total per 0.92g [†]	0.251		mg/0.92g	0.0576	10/18/19	J AOAC 2015 V98-6	
CBD per 0.92g	40.2		mg/0.92g	0.0307	10/18/19	J AOAC 2015 V98-6	
CBD-A per 0.92g	< LOQ		mg/0.92g	0.0307	10/18/19	J AOAC 2015 V98-6	
CBD-Total per 0.92g	40.2		mg/0.92g	0.0576	10/18/19	J AOAC 2015 V98-6	
CBDV per 0.92g [†]	0.364		mg/0.92g	0.0307	10/18/19	J AOAC 2015 V98-6	
CBDV-A per 0.92g [†]	< LOQ		mg/0.92g	0.0307	10/18/19	J AOAC 2015 V98-6	
CBDV-Total per 0.92g [†]	0.374		mg/0.92g	0.0572	10/18/19	J AOAC 2015 V98-6	
CBG per 0.92g [†]	1.33		mg/0.92g	0.0307	10/18/19	J AOAC 2015 V98-6	
CBG-A per 0.92g [†]	< LOQ		mg/0.92g	0.0307	10/18/19	J AOAC 2015 V98-6	
CBG-Total per 0.92g [†]	1.35		mg/0.92g	0.0576	10/18/19	J AOAC 2015 V98-6	
CBL per 0.92g [†]	0.104		mg/0.92g	0.0307	10/18/19	J AOAC 2015 V98-6	
CBN per 0.92g	0.0403		mg/0.92g	0.0307	10/18/19	J AOAC 2015 V98-6	
Δ8-THC per 0.92g [†]	< LOQ		mg/0.92g	0.0307	10/18/19	J AOAC 2015 V98-6	
Δ9-THC per 0.92g	1.43		mg/0.92g	0.0307	10/18/19	J AOAC 2015 V98-6	
THC-A per 0.92g	< LOQ		mg/0.92g	0.0307	10/18/19	J AOAC 2015 V98-6	
THC-Total per 0.92g	1.44		mg/0.92g	0.0576	10/18/19	J AOAC 2015 V98-6	
THCV per 0.92g [†]	< LOQ		mg/0.92g	0.0307	10/18/19	J AOAC 2015 V98-6	
THCV-A per 0.92g [†]	< LOQ		mg/0.92g	0.0307	10/18/19	J AOAC 2015 V98-6	
THCV-Total per 0.92g [†]	< LOQ		mg/0.92g	0.0572	10/18/19	J AOAC 2015 V98-6	

Potency per 27.6g		Batch: 1909369					
Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBC per 27.6g [†]	7.53		mg/27.6g	0.920	10/18/19	J AOAC 2015 V98-6	
CBC-A per 27.6g [†]	< LOQ		mg/27.6g	0.920	10/18/19	J AOAC 2015 V98-6	
CBC-Total per 27.6g [†]	7.53		mg/27.6g	1.73	10/18/19	J AOAC 2015 V98-6	
CBD per 27.6g	1210		mg/27.6g	0.920	10/18/19	J AOAC 2015 V98-6	
CBD-A per 27.6g	< LOQ		mg/27.6g	0.920	10/18/19	J AOAC 2015 V98-6	

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 Pixis 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 kept a maximum of 15 days from the report date unless prior arrangements have been made.



Potency per 27.6g		Batch: 1909369						
Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes	
CBD-Total per 27.6g	1210		mg/27.6g	1.73	10/18/19	J AOAC 2015 V98-6		
CBDV per 27.6g [†]	10.9		mg/27.6g	0.920	10/18/19	J AOAC 2015 V98-6		
CBDV-A per 27.6g [†]	< LOQ		mg/27.6g	0.920	10/18/19	J AOAC 2015 V98-6		
CBDV-Total per 27.6g [†]	11.2		mg/27.6g	1.72	10/18/19	J AOAC 2015 V98-6		
CBG per 27.6g [†]	40.0		mg/27.6g	0.920	10/18/19	J AOAC 2015 V98-6		
CBG-A per 27.6g [†]	< LOQ		mg/27.6g	0.920	10/18/19	J AOAC 2015 V98-6		
CBG-Total per 27.6g [†]	40.4		mg/27.6g	1.73	10/18/19	J AOAC 2015 V98-6		
CBL per 27.6g [†]	3.12		mg/27.6g	0.920	10/18/19	J AOAC 2015 V98-6		
CBN per 27.6g	1.21		mg/27.6g	0.920	10/18/19	J AOAC 2015 V98-6		
Δ8-THC per 27.6g [†]	< LOQ		mg/27.6g	0.920	10/18/19	J AOAC 2015 V98-6		
Δ9-THC per 27.6g	42.8		mg/27.6g	0.920	10/18/19	J AOAC 2015 V98-6		
THC-A per 27.6g	< LOQ		mg/27.6g	0.920	10/18/19	J AOAC 2015 V98-6		
THC-Total per 27.6g	43.2		mg/27.6g	1.73	10/18/19	J AOAC 2015 V98-6		
THCV per 27.6g [†]	< LOQ		mg/27.6g	0.920	10/18/19	J AOAC 2015 V98-6		
THCV-A per 27.6g [†]	< LOQ		mg/27.6g	0.920	10/18/19	J AOAC 2015 V98-6		
THCV-Total per 27.6g [†]	< LOQ		mg/27.6g	1.72	10/18/19	J AOAC 2015 V98-6		

Microbiology								
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
E. coli	< LOQ		cfu/g	10	1909248	10/15/19	AOAC 991.14 (Petrifilm)	X
Total Coliforms	< LOQ		cfu/g	10	1909248	10/15/19	AOAC 991.14 (Petrifilm)	X
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	1909249	10/15/19	AOAC 2014.05 (RAPID)	X
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	1909249	10/15/19	AOAC 2014.05 (RAPID)	X



Solvents						Method EPA5021A						Units µg/g	Batch 1909285	Analyze 10/14/19 09:47 PM			
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							



Pesticides		Method AOAC 2007.01 & EN 15662 (mod)				Units mg/kg	Batch 1909336	Analyze 10/15/19 03:11 PM			
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 (incl.	< 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							



Terpenes					Method J AOAC 2015 V98-6					Units %		Batch 1909353		Analyze 10/16/19 09:06 AM	
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes						
(-)-Guaiol†	< LOQ	0.020	0.00%		a-Bisabolol†	< LOQ	0.020	0.00%							
(-)-a-Terpineol†	< LOQ	0.020	0.00%		(-)-caryophyllene oxide†	< LOQ	0.020	0.00%							
(-)-Isopulegol†	< LOQ	0.020	0.00%		(-)-β-Pinene†	< LOQ	0.020	0.00%							
(+)-Borneol†	< LOQ	0.020	0.00%		(+)-Cedrol†	< LOQ	0.020	0.00%							
(+)-fenchol†	< LOQ	0.020	0.00%		(+)-Pulegone†	< LOQ	0.020	0.00%							
(±)-Camphor†	< LOQ	0.020	0.00%		(±)-cis-Nerolidol†	< LOQ	0.020	0.00%							
(±)-fenchone†	< LOQ	0.020	0.00%		(±)-trans-Nerolidol†	< LOQ	0.020	0.00%							
(R)-(+)-Limonene†	< LOQ	0.020	0.00%		a-cedrene†	< LOQ	0.020	0.00%							
a-phellandrene†	< LOQ	0.020	0.00%		a-pinene†	< LOQ	0.020	0.00%							
a-Terpinene†	< LOQ	0.020	0.00%		Camphene†	< LOQ	0.020	0.00%							
cis-β-Ocimene†	< LOQ	0.006	0.00%		d-3-Carene†	< LOQ	0.020	0.00%							
Eucalyptol†	< LOQ	0.020	0.00%		farnesene†	< LOQ	0.020	0.00%							
gamma-Terpinene†	< LOQ	0.020	0.00%		Geraniol†	< LOQ	0.020	0.00%							
Geranyl acetate†	< LOQ	0.020	0.00%		Humulene†	< LOQ	0.020	0.00%							
Isoborneol†	< LOQ	0.020	0.00%		Linalool†	< LOQ	0.020	0.00%							
Menthol†	< LOQ	0.020	0.00%		nerol†	< LOQ	0.020	0.00%							
p-Cymene†	< LOQ	0.020	0.00%		Sabinene†	< LOQ	0.020	0.00%							
Sabinene hydrate†	< LOQ	0.020	0.00%		β-Caryophyllene†	< LOQ	0.020	0.00%							
β-Myrcene†	< LOQ	0.020	0.00%		Terpinolene†	< LOQ	0.020	0.00%							
trans-β-Ocimene†	< LOQ	0.013	0.00%		valencene†	< LOQ	0.020	0.00%							
Total Terpenes	< LOQ														

Metals									
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes	
Arsenic	< LOQ		mg/kg	0.0400	1909467	10/18/19	AOAC 2013.06 (mod.)	X	
Cadmium	< LOQ		mg/kg	0.0400	1909467	10/18/19	AOAC 2013.06 (mod.)	X	
Lead	0.0696		mg/kg	0.0400	1909467	10/18/19	AOAC 2013.06 (mod.)	X	
Mercury	< LOQ		mg/kg	0.0200	1909467	10/18/19	AOAC 2013.06 (mod.)	X	



Mycotoxins

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Aflatoxin B1†	< LOQ		µg/kg	5.00	1909383	10/16/19	AOAC 2007.01 & EN 15662	
Aflatoxin B2†	< LOQ		µg/kg	5.00	1909383	10/16/19	AOAC 2007.01 & EN 15662	
Aflatoxin G1†	< LOQ		µg/kg	5.00	1909383	10/16/19	AOAC 2007.01 & EN 15662	
Aflatoxin G2†	< LOQ		µg/kg	5.00	1909383	10/16/19	AOAC 2007.01 & EN 15662	
Deoxynivalenol†	< LOQ		µg/kg	200	1909383	10/16/19	AOAC 2007.01 & EN 15662	
Fumonisin B1†	< LOQ		µg/kg	200	1909383	10/16/19	AOAC 2007.01 & EN 15662	
Fumonisin B2†	< LOQ		µg/kg	400	1909383	10/16/19	AOAC 2007.01 & EN 15662	
HT2-Toxin†	< LOQ		µg/kg	40.0	1909383	10/16/19	AOAC 2007.01 & EN 15662	
Nivalenol†	< LOQ		µg/kg	400	1909383	10/16/19	AOAC 2007.01 & EN 15662	
Ochratoxin A†	< LOQ		µg/kg	5.00	1909383	10/16/19	AOAC 2007.01 & EN 15662	
Ochratoxin B†	< LOQ		µg/kg	2.00	1909383	10/16/19	AOAC 2007.01 & EN 15662	
T2-Toxin†	< LOQ		µg/kg	20.0	1909383	10/16/19	AOAC 2007.01 & EN 15662	
Zearalenone†	< LOQ		µg/kg	200	1909383	10/16/19	AOAC 2007.01 & EN 15662	

This report cannot be used for ODA, OHA or OLCC compliance requirements.



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