



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



**Report Number:** 20-007408/D08.R00  
**Report Date:** 07/24/2020  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 07/16/20 12:15

**Customer:** Trace Minerals Research  
**Product identity:** CBD + Colloidal Silver 20mg  
**Client/Metric ID:** Lot# sn129600  
**Laboratory ID:** 20-007408-0002

### Summary

#### Potency:

Analyte	Result	Limits	Units	Status	
CBD	0.632		%		CBD-Total per 4.2g 26.5 mg/4.2g
CBDV <sup>†</sup>	0.00586		%		
CBG <sup>†</sup>	0.0105		%		THC-Total per 4.2g 0.962 mg/4.2g
CBL <sup>†</sup>	0.00532		%		
Δ9-THC	0.0229		%		(Reported in milligrams per serving)
Analyte per 4.2g	Result	Limits	Units	Status	
CBC per 4.2g	0.000		mg/4.2g		
CBC-A per 4.2g	0.000		mg/4.2g		
CBD per 4.2g	26.5		mg/4.2g		
CBD-A per 4.2g	0.000		mg/4.2g		
CBDV per 4.2g	0.246		mg/4.2g		
CBDV-A per 4.2g	0.000		mg/4.2g		
CBG per 4.2g	0.441		mg/4.2g		
CBG-A per 4.2g	0.000		mg/4.2g		
CBL per 4.2g	0.223		mg/4.2g		
CBN per 4.2g	0.000		mg/4.2g		
Δ8-THC per 4.2g	0.000		mg/4.2g		
Δ9-THC per 4.2g	0.962		mg/4.2g		
THC-A per 4.2g	0.000		mg/4.2g		
THCV per 4.2g	0.000		mg/4.2g		
THCV-A per 4.2g	0.000		mg/4.2g		

#### Residual Solvents:

All analytes passing and less than LOQ.

#### Pesticides:

All analytes passing and less than LOQ.

#### Terpenes:

Analyte	Percent by weight	Percent of Total	Analyte	Percent by weight	Percent of Total
(R)-(+)-Limonene <sup>†</sup>	0.0426	100.00%	Total Terpenes <sup>†</sup>	0.0426	100.00%

#### Metals:

Less than LOQ for all analytes.



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**Microbiology:**

*Less than LOQ for all analytes.*



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**Customer:** Trace Minerals Research

**Product identity:** CBD + Colloidal Silver 20mg

**Client/Metric ID:** Lot# sn129600

**Sample Date:**

**Laboratory ID:** 20-007408-0002

**Temp:** 25 °C

### Sample Results

Potency	Method J AOAC 2015 V98-6 (mod)	Batch: 2006112	Analyze: 7/24/20 1:01:00 PM		
Analyte	Result	Limits	Units	LOQ	Notes
CBC	< LOQ		%	0.0031	
CBC-A <sup>†</sup>	< LOQ		%	0.0031	
CBC-Total <sup>†</sup>	0.000		%	0.0000	
CBD	0.632		%	0.0031	
CBD-A	< LOQ		%	0.0031	
CBD-Total	0.632		%	0.0059	
CBDV <sup>†</sup>	0.00586		%	0.0031	
CBDV-A <sup>†</sup>	< LOQ		%	0.0031	
CBDV-Total <sup>†</sup>	< LOQ		%	0.0059	
CBG <sup>†</sup>	0.0105		%	0.0031	
CBG-A <sup>†</sup>	< LOQ		%	0.0031	
CBG-Total	0.0105		%	0.0059	
CBL <sup>†</sup>	0.00532		%	0.0031	
CBN	< LOQ		%	0.0031	
Δ8-THC <sup>†</sup>	< LOQ		%	0.0031	
Δ9-THC	0.0229		%	0.0031	
THC-A	< LOQ		%	0.0031	
THC-Total	0.0229		%	0.0059	
THCV <sup>†</sup>	< LOQ		%	0.0031	
THCV-A <sup>†</sup>	< LOQ		%	0.0031	
THCV-Total <sup>†</sup>	0.000		%	0.0000	
<b>Total Cannabinoids<sup>†</sup></b>	<b>0.677</b>		%		

Potency per 4.2g	Method J AOAC 2015 V98-6 (mod)	Batch: 2006112	Analyze: 7/24/20 1:01:00 PM		
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 4.2g	0.000		mg/4.2g	0.000	
CBC-A per 4.2g	0.000		mg/4.2g	0.000	
CBC-Total per 4.2g	< LOQ		mg/4.2g	1.88	
CBD per 4.2g	26.5		mg/4.2g	0.132	
CBD-A per 4.2g	0.000		mg/4.2g	0.000	
CBD-Total per 4.2g	26.5		mg/4.2g	0.248	
CBDV per 4.2g	0.246		mg/4.2g	0.132	
CBDV-A per 4.2g	0.000		mg/4.2g	0.000	
CBDV-Total per 4.2g	< LOQ		mg/4.2g	0.247	
CBG per 4.2g	0.441		mg/4.2g	0.132	

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Potency per 4.2g **Method J AOAC 2015 V98-6 (mod)** **Batch: 2006112** **Analyze: 7/24/20 1:01:00 PM**

Analyte	Result	Limits	Units	LOQ	Notes
CBG-A per 4.2g	0.000		mg/4.2g	0.000	
CBG-Total per 4.2g	0.441		mg/4.2g	0.247	
CBL per 4.2g	0.223		mg/4.2g	0.132	
CBN per 4.2g	0.000		mg/4.2g	0.000	
Δ8-THC per 4.2g	0.000		mg/4.2g	0.000	
Δ9-THC per 4.2g	0.962		mg/4.2g	0.132	
THC-A per 4.2g	0.000		mg/4.2g	0.000	
THC-Total per 4.2g	0.962		mg/4.2g	0.248	
THCV per 4.2g	0.000		mg/4.2g	0.000	
THCV-A per 4.2g	0.000		mg/4.2g	0.000	
THCV-Total per 4.2g	< LOQ		mg/4.2g	1.87	
<b>Total Cannabinoids 4.2g<sup>1</sup></b>	<b>28.4</b>		<b>mg/4.2g</b>		

**Microbiology**

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
E.coli	< LOQ		cfu/g	10	2005862	07/19/20	AOAC 991.14 (Petrifilm)	X
Total Coliforms	< LOQ		cfu/g	10	2005862	07/19/20	AOAC 991.14 (Petrifilm)	X
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2005864	07/19/20	AOAC 2014.05 (RAPID)	X
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2005864	07/19/20	AOAC 2014.05 (RAPID)	X

**Solvents** **Method EPA5021A** **Units µg/g** **Batch 2005908** **Analyze 07/20/20 07:19 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 2005985 Analyze 07/21/20 02:23 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	< 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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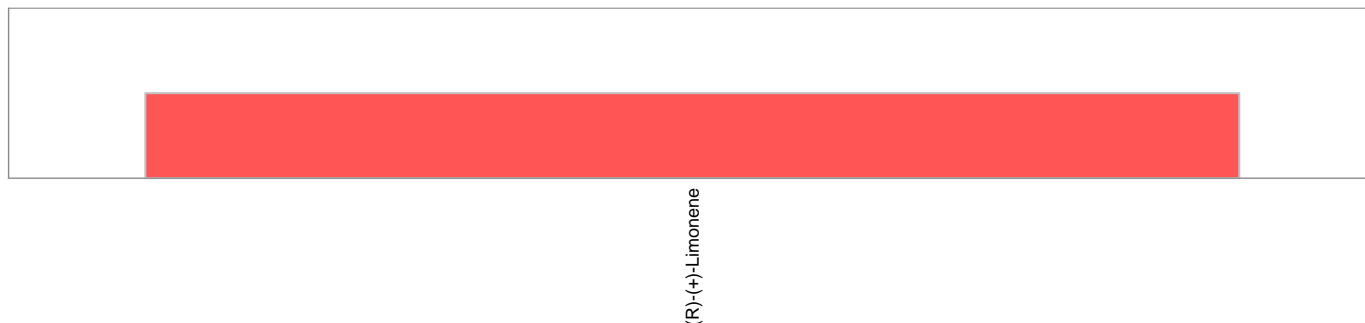


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Terpenes				Method J AOAC 2015 V98-6	Units %	Batch 2005960	Analyze 07/21/20 08:52 AM		
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
(R)-(+)-Limonene <sup>†</sup>	0.0426	0.020	100.00%		(-)-a-Terpineol <sup>†</sup>	< LOQ	0.020	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%	
a-Bisabolol <sup>†</sup>	< LOQ	0.020	0.00%		a-cedrene <sup>†</sup>	< LOQ	0.020	0.00%	
a-phellandrene <sup>†</sup>	< LOQ	0.020	0.00%		a-pinene <sup>†</sup>	< LOQ	0.020	0.00%	
a-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%		farnesene <sup>†</sup>	< LOQ	0.020	0.00%	
gamma-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-Caryophyllene <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>0.0426</b>								



Metals									
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes	
Arsenic	< LOQ		mg/kg	0.00284	2006001	07/21/20	AOAC 2013.06 (mod.)	X	
Cadmium	< LOQ		mg/kg	0.00284	2006001	07/21/20	AOAC 2013.06 (mod.)	X	
Lead	< LOQ		mg/kg	0.00284	2006001	07/21/20	AOAC 2013.06 (mod.)	X	
Mercury	< LOQ		mg/kg	0.00142	2006001	07/21/20	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	2006030	07/22/20	AOAC 2007.01 & EN 15662	
Aflatoxin B2†	< LOQ		µg/kg	5.00	2006030	07/22/20	AOAC 2007.01 & EN 15662	
Aflatoxin G1†	< LOQ		µg/kg	5.00	2006030	07/22/20	AOAC 2007.01 & EN 15662	
Aflatoxin G2†	< LOQ		µg/kg	5.00	2006030	07/22/20	AOAC 2007.01 & EN 15662	
Deoxynivalenol†	< LOQ		µg/kg	200	2006030	07/22/20	AOAC 2007.01 & EN 15662	
Fumonisin B1†	< LOQ		µg/kg	200	2006030	07/22/20	AOAC 2007.01 & EN 15662	
Fumonisin B2†	< LOQ		µg/kg	200	2006030	07/22/20	AOAC 2007.01 & EN 15662	
HT2-Toxin†	< LOQ		µg/kg	40.0	2006030	07/22/20	AOAC 2007.01 & EN 15662	
Nivalenol†	< LOQ		µg/kg	400	2006030	07/22/20	AOAC 2007.01 & EN 15662	
Ochratoxin A†	< LOQ		µg/kg	5.00	2006030	07/22/20	AOAC 2007.01 & EN 15662	
Ochratoxin B†	< LOQ		µg/kg	2.00	2006030	07/22/20	AOAC 2007.01 & EN 15662	
T2-Toxin†	< LOQ		µg/kg	20.0	2006030	07/22/20	AOAC 2007.01 & EN 15662	
Zearalenone†	< LOQ		µg/kg	200	2006030	07/22/20	AOAC 2007.01 & EN 15662	

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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/4.2g = Milligram per 4.2g

% = Percentage of sample

% wt = µg/g divided by 10,000

**Glossary of Qualifiers**

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner  
General Manager