



Product identity: CBD 20mg Lozenge
Laboratory ID: 19-011872-0001

Client/Metric ID: Lot #SN127260
Sample Date:

Summary

Potency:

Analyte per 4.2g	Result	Limits	Units	Status	
CBD per 4.2g	22.4		mg/4.2g		CBD-Total per 4.2g 22.4 mg/4.2g
CBG per 4.2g†	0.668		mg/4.2g		
Δ9-THC per 4.2g	0.974		mg/4.2g		THC-Total per 4.2g 0.974 mg/4.2g
(Reported in milligrams per serving)					

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:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.



Customer: Trace Minerals Research

Product identity: CBD 20mg Lozenge
Client/Metric ID: Lot #SN127260
Sample Date:
Laboratory ID: 19-011872-0001
Relinquished by: Received By Mail
Temp: 18.3 °C
Serving Size #1: 4.2 g
Weight Received: 4.2 g

Sample Results

Potency per 4.2g		Batch: 1909020						
Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes	
CBC per 4.2g [†]	< LOQ		mg/4.2g	0.140	10/17/19	J AOAC 2015 V98-6		
CBC-A per 4.2g [†]	< LOQ		mg/4.2g	0.140	10/17/19	J AOAC 2015 V98-6		
CBC-Total per 4.2g [†]	< LOQ		mg/4.2g	0.263	10/17/19	J AOAC 2015 V98-6		
CBD per 4.2g	22.4		mg/4.2g	0.140	10/17/19	J AOAC 2015 V98-6		
CBD-A per 4.2g	< LOQ		mg/4.2g	0.140	10/17/19	J AOAC 2015 V98-6		
CBD-Total per 4.2g	22.4		mg/4.2g	0.263	10/17/19	J AOAC 2015 V98-6		
CBDV per 4.2g [†]	< LOQ		mg/4.2g	0.140	10/17/19	J AOAC 2015 V98-6		
CBDV-A per 4.2g [†]	< LOQ		mg/4.2g	0.140	10/17/19	J AOAC 2015 V98-6		
CBDV-Total per 4.2g [†]	< LOQ		mg/4.2g	0.261	10/17/19	J AOAC 2015 V98-6		
CBG per 4.2g [†]	0.668		mg/4.2g	0.140	10/17/19	J AOAC 2015 V98-6		
CBG-A per 4.2g [†]	< LOQ		mg/4.2g	0.140	10/17/19	J AOAC 2015 V98-6		
CBG-Total per 4.2g [†]	0.668		mg/4.2g	0.263	10/17/19	J AOAC 2015 V98-6		
CBL per 4.2g [†]	< LOQ		mg/4.2g	0.140	10/17/19	J AOAC 2015 V98-6		
CBN per 4.2g	< LOQ		mg/4.2g	0.140	10/17/19	J AOAC 2015 V98-6		
Δ8-THC per 4.2g [†]	< LOQ		mg/4.2g	0.140	10/17/19	J AOAC 2015 V98-6		
Δ9-THC per 4.2g	0.974		mg/4.2g	0.140	10/17/19	J AOAC 2015 V98-6		
THC-A per 4.2g	< LOQ		mg/4.2g	0.140	10/17/19	J AOAC 2015 V98-6		
THC-Total per 4.2g	0.974		mg/4.2g	0.263	10/17/19	J AOAC 2015 V98-6		
THCV per 4.2g [†]	< LOQ		mg/4.2g	0.140	10/17/19	J AOAC 2015 V98-6		
THCV-A per 4.2g [†]	< LOQ		mg/4.2g	0.140	10/17/19	J AOAC 2015 V98-6		
THCV-Total per 4.2g [†]	< LOQ		mg/4.2g	0.261	10/17/19	J AOAC 2015 V98-6		

Microbiology								
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
E.coli	< LOQ		cfu/g	10	1908843	10/04/19	AOAC 991.14 (Petrifilm)	X
Total Coliforms	< LOQ		cfu/g	10	1908843	10/04/19	AOAC 991.14 (Petrifilm)	X
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	1908840	10/04/19	AOAC 2014.05 (RAPID)	X
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	1908840	10/04/19	AOAC 2014.05 (RAPID)	X



Solvents						Method EPA5021A						Units µg/g	Batch 1908945	Analyze 10/03/19 06:49 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 1908940					Analyze 10/03/19 04:43 PM				
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes	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	0.100	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	0.100	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 1908847		Analyze 10/02/19 09:29 AM	
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes						
(R)-(+)-Limonene [†]	< LOQ	0.020	0.00%		(-)-a-Terpineol [†]	< LOQ	0.020	0.00%							
(-)-caryophyllene oxide [†]	< LOQ	0.020	0.00%		(-)-Guaiol [†]	< 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%							
a-Bisabolol [†]	< 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	0.0185	1908949	10/03/19	AOAC 2013.06 (mod.)	X	
Cadmium	< LOQ		mg/kg	0.0185	1908949	10/03/19	AOAC 2013.06 (mod.)	X	
Lead	< LOQ		mg/kg	0.0185	1908949	10/03/19	AOAC 2013.06 (mod.)	X	
Mercury	< LOQ		mg/kg	0.00927	1908949	10/03/19	AOAC 2013.06 (mod.)	X	



Mycotoxins

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Aflatoxin B1†	< LOQ		µg/kg	5.00	1909380	10/16/19	AOAC 2007.01 & EN 15662	
Aflatoxin B2†	< LOQ		µg/kg	5.00	1909380	10/16/19	AOAC 2007.01 & EN 15662	
Aflatoxin G1†	< LOQ		µg/kg	5.00	1909380	10/16/19	AOAC 2007.01 & EN 15662	
Aflatoxin G2†	< LOQ		µg/kg	5.00	1909380	10/16/19	AOAC 2007.01 & EN 15662	
Deoxynivalenol†	< LOQ		µg/kg	200	1909380	10/16/19	AOAC 2007.01 & EN 15662	
Fumonisin B1†	< LOQ		µg/kg	200	1909380	10/16/19	AOAC 2007.01 & EN 15662	
Fumonisin B2†	< LOQ		µg/kg	400	1909380	10/16/19	AOAC 2007.01 & EN 15662	
HT2-Toxin†	< LOQ		µg/kg	40.0	1909380	10/16/19	AOAC 2007.01 & EN 15662	
Nivalenol†	< LOQ		µg/kg	400	1909380	10/16/19	AOAC 2007.01 & EN 15662	
Ochratoxin A†	< LOQ		µg/kg	5.00	1909380	10/16/19	AOAC 2007.01 & EN 15662	
Ochratoxin B†	< LOQ		µg/kg	2.00	1909380	10/16/19	AOAC 2007.01 & EN 15662	
T2-Toxin†	< LOQ		µg/kg	20.0	1909380	10/16/19	AOAC 2007.01 & EN 15662	
Zearalenone†	< LOQ		µg/kg	200	1909380	10/16/19	AOAC 2007.01 & EN 15662	

This sample was selected and submitted by the client. Test results are representative of the individual sample.



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