

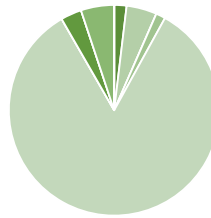
CBD Tincture

Customer Name Walman's Apothecary
Sample Type Infused Product
Customer Lot # 1010180089
Metric ID 4067-1
Parent Pkg ID N/A
License Contact 2019-034
Date Sampled 2/1/2023
Date Tested 2/2/2023

SUMMARY

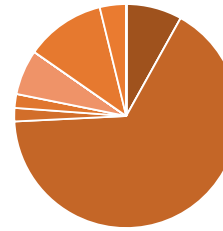
Water Activity	NOT TESTED	NOT TESTED	Solvents	PASSED
Moisture	NOT TESTED	NOT TESTED	Heavy Metals	PASSED
Pesticides	PASSED		Mycotoxins	PASSED
Foreign Material	PASSED		Microbials	PASSED

CANNABINOIDS



- CBDV
- CBDA
- CBGA
- CBG
- CBD
- THCV
- CBN
- D9-THC
- D8-THC
- CBC
- THCA
- THCVA
- CBNA
- CBCA

TERPENES



- Alpha-Pinene
- Camphene
- beta-Myrcene
- beta-Pinene
- Ocimene
- alpha-Terpinene
- (R)-(+)-Limonene
- Eucalyptol
- gamma-Terpinene
- Terpinolene
- Linalool
- (-)-Isopulegol
- Geraniol
- trans-Caryophyllene
- alpha-Humulene
- (1S)-(+)-3-Carene
- cis-Nerolidol
- trans-Nerolidol
- Guaiol
- (-)-Caryophyllene oxide
- (-)-alpha-Bisabolol
- p-Isopropyltoluene

CANNABINOIDS	6.86%	TOTAL	
Analyte	LOQ	Mass	
		mg/mL	
		%	
CBDV	0.08	0.13	1.30
CBDA	0.08	0.32	3.20
CBGA	0.08	ND	0.00
CBG	0.08	0.10	1.00
CBD	0.08	5.74	57.40
THCV	0.08	ND	0.00
CBN	0.08	ND	0.00
D9-THC	0.08	0.22	2.20
D8-THC	0.08	ND	0.00
CBC	0.08	0.35	3.50
THCA	0.08	ND	0.00
THCVA	0.08	ND	0.00
CBNA	0.08	ND	0.00
CBCA	0.08	ND	0.00

TERPENES	1.548%	TOTAL	
Analyte	LOQ	Mass	
		mg/g	
		%	
Alpha-Pinene	0.028	0.125	1.25
Camphene	0.028	<LOQ	0
beta-Myrcene	0.028	1.024	10.24
beta-Pinene	0.028	0.030	0.3
Ocimene	0.028	0.031	0.31
alpha-Terpinene	0.028	ND	0
(R)-(+)-Limonene	0.085	0.101	1.01
Eucalyptol	0.028	<LOQ	0
gamma-Terpinene	0.028	<LOQ	0
Terpinolene	0.028	ND	0
Linalool	0.028	<LOQ	0
(-)-Isopulegol	0.028	ND	0
Geraniol	0.028	ND	0
trans-Caryophyllene	0.028	0.178	1.78
alpha-Humulene	0.028	0.059	0.59
(1S)-(+)-3-Carene	0.028	<LOQ	0
cis-Nerolidol	0.028	ND	0
trans-Nerolidol	0.028	ND	0
Guaiol	0.028	<LOQ	0
(-)-Caryophyllene oxide	0.028	ND	0
(-)-alpha-Bisabolol	0.028	ND	0
p-Isopropyltoluene	0.028	ND	0
alpha-Terpeneol	0.028	<LOQ	0
beta-Elementene	0.028	ND	0
Azulene	0.028	ND	0
Sabinene	0.028	<LOQ	0
Borneol	0.028	<LOQ	0
Cedrol	0.028	ND	0
Fenchol	0.028	<LOQ	0

RESIDUAL SOLVENTS

Analyte	LOQ	Result	Action Limit	UOM
Benzene	0.2	ND	2	ppm
Butanes	500	ND	5,000	ppm
Ethanol	500	ND	5,000	ppm
Heptanes	500	ND	5,000	ppm
Hexanes	29	ND	290	ppm
Propanes	500	ND	5,000	ppm
Toluene	89	ND	890	ppm
Total Xylenes	217	ND	2,170	ppm

MICROBIALS

Analyte	Result	Action Limit	UOM
Total Aerobic	0	100,000	CFU/g
Total Yeast and Mold	0	100,000	CFU/g
E. Coli	NEG	1	CFU/g
Salmonella	NEG	1	CFU/g

HEAVY METALS

Analyte	LOQ	Result	Action Limit	UOM
Arsenic	0.04	ND	0.4	ppm
Cadmium	0.04	ND	0.4	ppm
Chromium	0.06	ND	0.6	ppm
Lead	0.1	ND	1	ppm
Mercury	0.02	ND	0.2	ppm

VITAMIN E ACETATE

Analyte	LOQ	Result	Action Limit	UOM
Vitamin E Acetate	450	NOT TESTED	7000	ppm

MYCOTOXINS

Analyte	LOQ	Result	Action Limit	UOM
Aflatoxin B1	1	ND	20	ppb
Aflatoxin B2	1	ND	20	ppb
Aflatoxin G1	1	ND	20	ppb
Aflatoxin G2	1	ND	20	ppb
Ochratoxin A	1	ND	20	ppb

PESTICIDES (in ppm)

Analyte	Result	Action Limit	Analyte	Result	Action Limit	Analyte	Result	Action Limit
Abamectin	ND	0.5	Dimethoate	ND	0.2	Naled	ND	0.5
Acetamiprid	ND	0.2	Ethephon	ND	1	Oxamyl	ND	1
Aldicarb	ND	0.4	Etoxazole	ND	0.2	Pacllobutrazol	ND	0.4
Ancymidol	ND	0.2	Fenpyroximate	ND	0.5	Permethrin, cis	ND	0.5
Azoxystrobin	ND	0.2	Fipronil	ND	0.4	Permethrin, trans	ND	0.5
Bifenazate	ND	0.2	Fonicamid	ND	1	Phosmet	ND	0.2
Bifenthrin	ND	0.2	Fludioxonil	ND	0.4	Piperonyl butoxide	ND	1
Boscalid	ND	0.4	Flurprimidol	ND	0.2	Propiconazole	ND	0.4
Carbaryl	ND	0.2	Hexythiazox	ND	1	Pyrethrins	ND	1
Carbofuran	ND	0.2	Imazail	ND	0.2	Spinosyn A	ND	0.2
Chlorantraniliprole	ND	0.2	Imidacloprid	ND	0.4	Spinosyn D	ND	0.2
Chlorpyrifos	ND	0.2	Kresoxim-methyl	ND	0.4	Spiromesifen	ND	0.2
Clofentezine	ND	0.2	Malathion A	ND	0.2	Spirotetramat	ND	0.2
Cyfluthrin	ND	1	Metaxyl	ND	0.2	Thiacloprid	ND	0.2
Dichlorvos	ND	0.1	Methiocarb	ND	0.2	Thiamethoxam	ND	0.2
Daminozide	ND	1	Methomyl	ND	0.4	Trifloxystrobin	ND	0.2
Diazinon	ND	0.2	Myclobutanil	ND	0.2			

Sample collection methods (PRO.S.106) and measurement of uncertainty (MU) are available upon request. MU is not considered when evaluating conformity, except for 9-THC concentrations in hemp samples. Cannabinoids measured by HPLC-UV (TM 111). Per MMCC guidelines, cannabinoid results are the reported average based off of 10x and 20x dilution. Terpenes measured by GCMS (TM 102). Microbes measured by qPCR/culture-based methods (TM 101, TM 103, TM 112, TM 117, TM 118, TM 119). Mycotoxins and pesticides measured by LCMS (TM 100). Heavy Metals measured by ICPMS (TM 104). Water Activity measured by water activity meter (TM 106); moisture content by LOD (105). Unless otherwise indicated, results were reviewed and verified by the Lab Director, and issuance of this CoA was authorized by the Lab Director. Action limits set according to MMCC Technical Authority for Medical Cannabis Testing, 01JAN2023. Results valid only for the exact material sampled and analyzed. Specimens stored in a cool, dry place if not analyzed immediately. Abbreviation Key: ND = Not Detected, LOD = Limit of Detection, LOQ = Limit of Quantitation, ppb = parts per billion, ppm = parts per million, UOM = unit of measure, NEG = Negative.

