Pinnacle CT, inc.
Cannabis Testing You Can Depend On

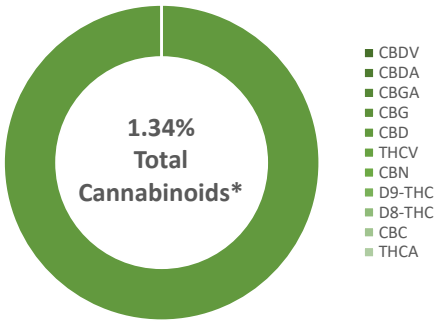
57 Aileron Ct. Westminster, MD 21157
Phone: 410-231-7900
Laboratory Director: Nadia Rinker Storey
MMCC ID#: L-18-00001

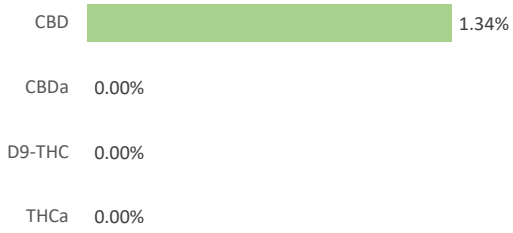
Certificate of Analysis

Specimen #: 4246-1

Sample Name:	1000 mg Roll On	**Customer Lot #:**	3010100099
Customer Name:	Walman's Apothecary	**Sample ID:**	4246-1
Sample Type:	Concentrate	**Parent Pkg ID:**	N/A
Date Sampled:	4/12/2023	**Licensee Contact:**	2019-034
Date Tested:	4/13/2023		

CANNABINOID PROFILE





Moisture NOT TESTED

Analyte	LOQ	Mass %	Mass mg/87g unit
CBDV	0.08	<LOQ	0.00
CBDA	0.08	ND	0.00
CBGA	0.08	ND	0.00
CBG	0.08	ND	0.00
CBD	0.08	1.34	1165.80
THCV	0.08	ND	0.00
CBN	0.08	<LOQ	0.00
Δ9-THC	0.08	<LOQ	0.00
Δ8-THC	0.08	ND	0.00
CBC	0.08	<LOQ	0.00
THCA	0.08	ND	0.00
THCVA	0.08	ND	0.00
CBNA	0.08	ND	0.00
CBCA	0.08	ND	0.00
Total		**1.34%**	

Total Cannabinoids	**Mass** %	**Mass** mg/87g unit
Total Potential THC**	0.00	0.00
Total Potential CBD**	1.34	1165.80

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)

* Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

**Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxly group during decarboxylation step.

Total THC= THCa * 0.877 + Δ9-THC; Total CBD = CBDa * 0.877 + CBD

Cannabinoid potency values are reported by percentage of dry weight determined via loss on drying; Unless otherwise stated all quality control samples performed within specications established by the Laboratory.

FINAL APPROVAL

Nadia Rinker Storey
Laboratory Director

ACCREDITED
CERT #5470.01

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.**

Date Reported: 4/13/2023

Pinnacle CT, inc.
Cannabis Testing You Can Depend On

57 Aileron Ct. Westminster, MD 21157
Phone: 410-231-7900
Laboratory Director: Timothy Schnupp, PharmD
MMCC ID#: L-18-00001

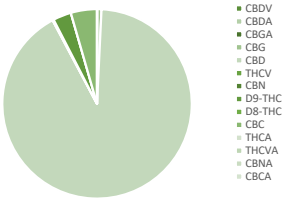
Certificate of Analysis

Specimen #: 1184-1

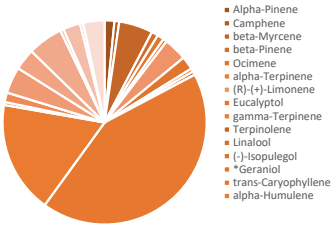
Gorman Full Panel

Customer Name	Walman's Apothecary
Sample Type	Infused Product
Customer Lot #	09252001
Metric ID	1184-1
Parent Pkg ID	N/A

CANNABINOIDS



TERPENES



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 — 71.78% TOTAL

Analyte	LOQ	Mass	Mass
		%	mg/g
CBDV	0.08	ND	0.00
CBDA	0.08	ND	0.00
CBGA	0.08	ND	0.00
CBG	0.08	0.54	5.42
CBD	0.08	65.65	656.55
THCV	0.08	ND	0.00
CBN	0.08	0.14	1.41
D9-THC	0.08	2.23	22.33
D8-THC	0.08	ND	0.00
CBC	0.08	3.21	32.06
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 — 3.164% TOTAL

Analyte	LOQ	Mass	Mass
		%	mg/g
Alpha-Pinene	0.01	0.049	0.49
Camphene	0.01	0.024	0.24
beta-Myrcene	0.01	0.170	1.7
beta-Pinene	0.01	0.033	0.33
Ocimene	0.01	0.034	0.34
alpha-Terpinene	0.01	0.019	0.19
(R)-(+)-Limonene	0.01	0.116	1.16
Eucalyptol	0.01	0.066	0.66
gamma-Terpinene	0.01	0.017	0.17
Terpinolene	0.01	0.018	0.18
Linalool	0.01	ND	0
(-)-Isopulegol	0.01	ND	0
*Geraniol	0.01	ND	0
trans-Caryophyllene	0.01	1.352	13.52
alpha-Humulene	0.01	0.562	5.62
(1S)-(+)-3-Carene	0.01	0.015	0.15
cis-Nerolidol	0.01	0.048	0.48
trans-Nerolidol	0.01	ND	0
Guaiol	0.01	0.132	1.32
(-)-Caryophyllene oxide	0.01	0.107	1.07
*(-)-alpha-Bisabolol	0.01	0.176	1.76
Hexadecane	0.01	ND	0
p-isopropyltoluene	0.01	0.017	0.17
alpha-Terpineol	0.01	0.086	0.86
beta-Elemene	0.01	0.016	0.16
Azulene	0.01	ND	0
Sabinene	0.01	ND	0
Borneol	0.01	ND	0
Cedrol	0.01	ND	0
Fenchol	0.01	0.107	1.07

RESIDUAL SOLVENTS

Analyte	Result	Unit of Measure
Benzene	ND	ppm
Butanes	<LOQ	ppm
Ethanol	ND	ppm
Heptanes	ND	ppm
Hexanes	ND	ppm
Propanes	ND	ppm
Toluene	ND	ppm
Total Xylenes	ND	ppm

MICROBIALS

Analyte	Result	Unit of Measure
Total Aerobic	0	CFU/g
Total Yeast and Mold	0	CFU/g
E. Coli	neg	CFU/g
Salmonella	neg	CFU/g

VITAMIN E ACETATE

Analyte	Result	Unit of Measure
Vitamin E Acetate	NOT TESTED	ppm

HEAVY METALS

Analyte	Result	Unit of Measure
Arsenic	ND	ppm
Barium	ND	ppm
Cadmium	<LOQ	ppm
Chromium	<LOQ	ppm
Lead	0.195	ppm
Mercury	ND	ppm
Selenium	ND	ppm
Silver	ND	ppm

MYCOTOXINS

Analyte	Result	Unit of Measure
Aflatoxin B1	ND	ppb
Aflatoxin B2	ND	ppb
Aflatoxin G1	ND	ppb
Aflatoxin G2	ND	ppb
Ochratoxin A	ND	ppb

PESTICIDES

Analyte	Result	Unit of Measure	Analyte	Result	Unit of Measure	Analyte	Result	Unit of Measure
Abamectin	ND	ppm	Dimethoate	ND	ppm	Naled	ND	ppm
Acetamiprid	ND	ppm	Ethephon	ND	ppm	Oxamyl	ND	ppm
Aldicarb	ND	ppm	Etoxazole	ND	ppm	Paclobutrazol	ND	ppm
Ancymidol	ND	ppm	Fenpyroximate	ND	ppm	Permethrin, cis	ND	ppm
Azoxystrobin	ND	ppm	Fipronil	ND	ppm	Permethrin, trans	ND	ppm
Bifenazate	ND	ppm	Flonicamid	ND	ppm	Phosmet	ND	ppm
Bifenthrin	ND	ppm	Fludioxonil	ND	ppm	Piperonyl butoxide	ND	ppm
Boscalid	ND	ppm	Flurprimidol	ND	ppm	Propiconazole	ND	ppm
Carbaryl	ND	ppm	Hexythiazox	ND	ppm	Pyrethrins	ND	ppm
Carbofuran	ND	ppm	Imazalil	ND	ppm	Spinosyn A	ND	ppm
Chlorantraniliprole	ND	ppm	Imidacloprid	ND	ppm	Spinosyn D	ND	ppm
Chlorpyrifos	ND	ppm	Kresoxim-methyl	ND	ppm	Spiromesifen	ND	ppm
Clofentezine	ND	ppm	Malathion A	ND	ppm	Spirotetramat	ND	ppm
Cyfluthrin	ND	ppm	Metalaxyl	ND	ppm	Thiaclomprid	ND	ppm
Dichlorvos	ND	ppm	Methiocarb	ND	ppm	Thiamethoxam	ND	ppm
Daminozide	ND	ppm	Methomyl	ND	ppm	Trifloxystrobin	ND	ppm
Diazinon	ND	ppm	Myclobutanil	ND	ppm			

A2LA ACCREDITED CERTIFICATE #5470.01

Sample collection methods and uncertainty of measurement associated with results reported in this certificate are available upon request. Cannabinoids measured by HPLC-UV. Terpenes measured by GCMS. Microbes measured by qPCR/culture-based methods. Mycotoxins and pesticides measured by LCMS. Heavy Metals analyzed by ICPMS. Water Activity measured by water activity meter; moisture content by LOD. 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, 15 November 2019. Results valid only for the exact material sampled and analyzed. Specimens stored in a cool, dry place if not analyzed immediately.

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Date Reported: 10/1/2020