



Roots Apothecary
2300 highland
village road #9
highland village,
texas, 75077
7193731889
Order #: 84780
Retail Batch #:
091924

CERTIFICATE OF ANALYSIS
ISO/IEC: 17025:2017 Accreditation #:
103104
License #: CMTL-0004

Order Information

Order #: 84780
Order Name: 2520mg CBD sublingual
Retail Batch #: 091924
Received: 12/28/2023 12:24:32
Complete: 01/02/2024 14:47:47

Batch Information

Create Date: 09/19/2023
Exp. Date: 09/19/2024
Size: 62

Total Qty.: 150
Matrix: Tincture
Pickup Weight: N/A

CANNABINOID PROFILE
TESTED

LABEL CLAIM
**NOT
APPLICABLE**

MICROBIALS
NOT TESTED

RESIDUAL SOLVENTS
NOT TESTED

AGRICULTURAL AGENTS
PASS

HEAVY METAL ANALYSIS
PASS

TERPENES
NOT TESTED

MOISTURE ANALYSIS
NOT TESTED

WATER ACTIVITY
NOT TESTED

FILTH & FOREIGN
NOT TESTED

HOMOGENEITY
NOT TESTED

MYCOTOXINS
NOT TESTED



0.1729 %
Total THC

4.7394 %
Total CBD

5.2095 %
Total Cannabinoids

Diana Asensio, M.S.

Lab Director



ACT Laboratories Florida
4001 SW 47th Avenue, Suite 208
Davie, FL 33314
(954) 514-9343





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Sample Prep

Tech: 3393
SOP: 418
Batch Number: 62053
Batch Date: 12/28/2023 12:42:00

Sample Analysis

Date/Time: 12/29/2023 10:38:52
Tech: 3445
SOP: 417
Final Weight: 0.2044 g
Volume: 40 ml

CANNABINOID PROFILE

HPLC-DAD

0.1729 %
Total THC

1.729 mg
THC Per Unit

103.740 mg
THC Per Pkg

4.7394 %
Total CBD

47.394 mg
CBD Per Unit

2843.640 mg
CBD Per Pkg

5.2095 %
Total Cannabinoids

52.095 mg
Cannabinoids Per Unit

3125.700 mg
Cannabinoids Per Pkg

Cannabinoid Potency

ANALYTE	LOD/LOQ (mg/g)	DIL.	WEIGHT %	MG/G	MG/UNIT	MG/PACKAGE	LABEL CLAIM (mg)	% LABEL VAR.
CBC	0.064/0.1954	1	0.1445	1.445	1.445	86.700	--	--
CBD	0.064/0.1954	1	4.7394	47.394	47.394	2843.640	--	--
CBDA	0.064/0.1954	1	ND	ND	ND	ND	--	--
CBDV	0.064/0.1954	1	0.0266	0.266	0.266	15.960	--	--
CBG	0.064/0.1954	1	0.1261	1.261	1.261	75.660	--	--
CBGA	0.064/0.1954	1	ND	ND	ND	ND	--	--
CBN	0.064/0.1954	1	<LOQ	<LOQ	<LOQ	<LOQ	--	--
d8-THC	0.064/0.1954	1	ND	ND	ND	ND	--	--
d9-THC	0.064/0.1954	1	0.1729	1.729	1.729	103.740	--	--
THCA	0.064/0.1954	1	ND	ND	ND	ND	--	--
THCV	0.064/0.1954	1	ND	ND	ND	ND	--	--

mg/unit = 1 (g) per unit x 1 (g/ml) x cannabinoid concentration (mg/g)
Total THC = THC + (0.877 x THCA) and Total CBD = CBD + (0.877 x CBDA)
ND = Not Detected, NT = Not Tested, <LOQ = Below Limit of Quantitation

CANNABINOID TOTALS	WEIGHT %	MG/G	MG/UNIT	MG/PACKAGE
Total THC	0.1729	1.729	1.729	103.740
Total CBD	4.7394	47.394	47.394	2843.640
Total Cannabinoids	5.2095	52.095	52.095	3125.700

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Agricultural Agents

LC-MS/MS

PASS

Sample Prep

Tech: 3393
SOP: 432
Batch Number: 62047
Batch Date: 12/27/2023 16:05:47

Sample Analysis

Date/Time: 12/29/2023 14:13:09
Tech: 3445
SOP: 424
Final Weight: 0.104 g
Volume: 2.5 ml

ANALYTE	LOD/LOQ (ppm)	DIL.	ACTION LEVEL(ppm)	RESULTS (ppm)	ANALYTE	LOD/LOQ (ppm)	DIL.	ACTION LIMIT(ppm)	RESULTS (ppm)
Abamectin B1a	0.002/0.035	1	0.3	ND	Hexythiazox	0.002/0.004	1	2	ND
Acephate	0.002/0.04	1	3	ND	Imazalil	0.002/0.01	1	0.1	ND
Acequinocyl	0.002/0.002	1	2	ND	Imidacloprid	0.002/0.002	1	3	ND
Acetamiprid	0.002/0.002	1	3	ND	Kresoxim-methyl	0.002/0.002	1	1	ND
Aldicarb	0.002/0.01	1	0.1	ND	Malathion	0.01/0.04	1	2	ND
Azoxystrobin	0.002/0.04	1	3	ND	Metalaxyl	0.002/0.004	1	3	ND
Bifenazate	0.002/0.002	1	3	ND	Methiocarb	0.002/0.01	1	0.1	ND
Bifenthrin	0.002/0.002	1	0.5	ND	Methomyl	0.002/0.002	1	0.1	ND
Boscalid	0.01/0.05	1	3	ND	Mevinphos	0.009/0.036	1	0.1	ND
Carbaryl	0.002/0.004	1	0.5	ND	Myclobutanil	0.002/0.04	1	3	ND
Carbofuran	0.002/0.01	1	0.1	ND	Naled	0.002/0.01	1	0.5	ND
Chlorantraniliprole	0.002/0.01	1	3	ND	Oxamyl	0.002/0.002	1	0.5	ND
Chlormequat chloride	0.002/0.004	1	3	ND	Paclobutrazol	0.002/0.004	1	0.1	ND
Chlorpyrifos	0.002/0.01	1	0.1	ND	Permethrins	0.002/0.01	1	1	ND
Clofentezine	0.002/0.002	1	0.5	ND	Phosmet	0.002/0.002	1	0.2	ND
Daminozide	0.01/0.04	1	0.1	ND	Piperonyl Butoxide	0.002/0.002	1	3	ND
Diazinon	0.002/0.01	1	0.2	ND	Prallethrin	0.002/0.01	1	0.4	ND
Dichlorvos	0.002/0.04	1	0.1	ND	Propiconazole	0.002/0.04	1	1	ND
Dimethoate	0.002/0.002	1	0.1	ND	Propoxur	0.002/0.01	1	0.1	ND
Dimethomorph	0.001/0.002	1	3	ND	Pyrethrins	0.001/0.013	1	1	ND
Ethoprophos	0.002/0.01	1	0.1	ND	Spinetoram	0.001/0.003	1	3	ND
Etofenprox	0.002/0.002	1	0.1	ND	Spinosad	0.001/0.001	1	3	ND
Etiozazole	0.002/0.002	1	1.5	ND	Spiromesifen	0.002/0.002	1	3	ND
Fenhexamid	0.01/0.04	1	3	ND	Spirotetramat	0.002/0.01	1	3	ND
Fenoxycarb	0.002/0.004	1	0.1	ND	Spiroxamine	0.002/0.04	1	0.1	ND
Fenpyroximate	0.002/0.002	1	2	ND	Tebuconazole	0.01/0.04	1	1	ND
Fipronil	0.002/0.004	1	0.1	ND	Thiacloprid	0.002/0.002	1	0.1	ND
Flonicamid	0.002/0.01	1	2	ND	Thiamethoxam	0.002/0.01	1	1	ND
Fludioxonil	0.002/0.004	1	3	ND	Trifloxystrobin	0.002/0.002	1	3	ND

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HEAVY METAL ANALYSIS

ICP-MS

PASS

Sample Prep

Tech: 3396
SOP: 428
Batch Number: 62061
Batch Date: 01/02/2024 09:49:13

Sample Analysis

Date/Time: 01/02/2024 14:27:31
Tech: 3396
SOP: 428
Final Weight: 0.2442 g
Volume: 60 ml

ANALYTE	LOD/LOQ (ppb)	DIL.	ACTION LIMIT (ppb)	RESULTS (ppb)
Arsenic	20/75	1	1500	ND
Cadmium	20/75	1	500	ND
Lead	20/75	1	500	ND
Mercury	20/75	1	3000	ND

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