

Whole Plant Tincture 2000 mg

Sample ID: SA-220720-10652
 Batch: 050122WPTC
 Type: Finished Products
 Matrix: Oil / Liquid - MCT Oil
 Unit Mass (g):

Received: 07/22/2022
 Completed: 08/09/2022

Client
 SunFlora Inc.
 600 8th Ave W, STE 400
 Palmetto, FL 34221
 USA



Summary

Test	Date Tested	Status
Cannabinoids	08/02/2022	Tested
Foreign Matter	07/22/2022	Tested
Heavy Metals	07/25/2022	Passed
Microbials	07/27/2022	Passed
Mycotoxins	07/29/2022	Passed
Pesticides	07/29/2022	Passed
Residual Solvents	08/01/2022	Passed
Terpenes	08/09/2022	Tested

2.53 mg/mL Total Δ9-THC	57.2 mg/mL Total CBD	67.0 mg/mL Total Cannabinoids	Not Tested Moisture Content	Not Detected Foreign Matter	Yes Internal Standard Normalization
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Cannabinoids by HPLC-PDA, LC-MS/MS, and/or GC-MS/MS

Analyte	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (%)	Result (mg/unit)
CBC	0.00095	0.00284	3.77	0.406	113
CBCA	0.00181	0.00543	ND	ND	ND
CBCV	0.0006	0.0018	ND	ND	ND
CBD	0.00081	0.00242	57.0	6.15	1710
CBDA	0.00043	0.0013	0.234	0.0252	7.01
CBDV	0.00061	0.00182	0.284	0.0306	8.51
CBDVA	0.00021	0.00063	ND	ND	ND
CBG	0.00057	0.00172	2.45	0.264	73.5
CBGA	0.00049	0.00147	ND	ND	ND
CBL	0.00112	0.00335	0.135	0.0146	4.05
CBLA	0.00124	0.00371	ND	ND	ND
CBN	0.00056	0.00169	0.167	0.0180	5.02
CBNA	0.0006	0.00181	ND	ND	ND
CBT	0.0018	0.0054	0.362	0.0390	10.8
Δ8-THC	0.00104	0.00312	ND	ND	ND
Δ9-THC	0.00076	0.00227	2.53	0.273	76.0
Δ9-THCA	0.00084	0.00251	ND	ND	ND
Δ9-THCV	0.00069	0.00206	ND	ND	ND
Δ9-THCVA	0.00062	0.00186	ND	ND	ND
Total Δ9-THC			2.53	0.273	76.0
Total CBD			57.2	6.17	1720
Total			67.0	7.22	2010

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; RL = Reporting Limit; Δ = Delta; Total Δ9-THC = Δ9-THCA * 0.877 + Δ9-THC; Total CBD = CBDA * 0.877 + CBD;



Generated By: Ryan Bellone
 Commercial Director
 Date: 08/09/2022



Tested By: Jared Burkhart
 Technical Manager
 Date: 08/02/2022



ISO/IEC 17025:2017 Accredited
 Accreditation #108651



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Terpenes by HS-GC-MS/MS

Analyte	LOD (%)	LOQ (%)	Result (%)	Analyte	LOD (%)	LOQ (%)	Result (%)
α -Bisabolol	0.00100	0.00500	<LOQ	Limonene	0.001	0.005	0.008011
(+)-Borneol	0.00100	0.00500	ND	Linalool	0.001	0.005	0.007786
Camphene	0.00100	0.00500	ND	β -myrcene	0.001	0.005	<LOQ
Camphor	0.00100	0.00500	ND	Nerol	0.001	0.005	ND
3-Carene	0.00100	0.00500	0.005772	cis-Nerolidol	0.001	0.005	ND
β -Caryophyllene	0.00100	0.00500	0.008324	trans-Nerolidol	0.001	0.005	ND
Caryophyllene Oxide	0.00100	0.00500	<LOQ	Ocimene	0.001	0.005	<LOQ
α -Cedrene	0.00100	0.00500	ND	α -Phellandrene	0.001	0.005	ND
Cedrol	0.00100	0.00500	ND	α -Pinene	0.001	0.005	0.016968
Eucalyptol	0.00100	0.00500	ND	β -Pinene	0.001	0.005	0.005013
Fenchone	0.00100	0.00500	ND	Pulegone	0.001	0.005	ND
Fenchyl Alcohol	0.00100	0.00500	ND	Sabinene	0.001	0.005	0.007876
Geraniol	0.00100	0.00500	ND	Sabinene Hydrate	0.001	0.005	ND
Geranyl Acetate	0.00100	0.00500	ND	α -Terpinene	0.001	0.005	ND
Guaial	0.00100	0.00500	<LOQ	γ -Terpinene	0.001	0.005	ND
Hexadhydrothymol	0.00100	0.00500	ND	α -Terpineol	0.001	0.005	ND
α -Humulene	0.00100	0.00500	<LOQ	γ -Terpineol	0.001	0.005	ND
Isoborneol	0.00100	0.00500	ND	Terpinolene	0.001	0.005	ND
Isopulegol	0.00100	0.00500	ND	Total Terpenes (%)			0.0820

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; P = Pass; F = Fail; RL = Reporting Limit



Pine



Rosemary



Fresh



Pepper



Hops

Generated By: Ryan Bellone
 Commercial Director
 Date: 08/09/2022

Tested By: Scott Caudill
 Senior Scientist
 Date: 08/09/2022



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Heavy Metals by ICP-MS

Analyte	LOD (ppb)	LOQ (ppb)	Result (ppb)	P/F
Arsenic	2	20	ND	P
Cadmium	1	20	ND	P
Lead	2	20	ND	P
Mercury	12	50	ND	P

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Generated By: Ryan Bellone
Commercial Director
Date: 08/09/2022



Tested By: Nicholas Howard
Scientist
Date: 07/25/2022



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Pesticides by LC-MS/MS and GC-MS/MS

Analyte	LOD (ppb)	LOQ (ppb)	Result (ppb)	P/F	Analyte	LOD (ppb)	LOQ (ppb)	Result (ppb)	P/F
Acephate	30	100	ND	P	Hexythiazox	30	100	ND	P
Acetamiprid	30	100	ND	P	Imazalil	30	100	ND	P
Azoxystrobin	30	100	ND	P	Imidacloprid	30	100	ND	P
Bifenazate	30	100	ND	P	Kresoxim methyl	30	100	ND	P
Bifenthrin	30	100	ND	P	Malathion	30	100	ND	P
Boscalid	30	100	ND	P	Metaxyl	30	100	ND	P
Carbaryl	30	100	ND	P	Methiocarb	30	100	ND	P
Carbofuran	30	100	ND	P	Methomyl	30	100	ND	P
Chloranthraniliprole	30	100	ND	P	Mevinphos	30	100	ND	P
Chlorfenapyr	30	100	ND	P	Myclobutanil	30	100	ND	P
Chlorpyrifos	30	100	ND	P	Naled	30	100	ND	P
Clofentezine	30	100	ND	P	Oxamyl	30	100	ND	P
Coumaphos	30	100	ND	P	Paclobutrazol	30	100	ND	P
Daminozide	30	100	ND	P	Permethrin	30	100	ND	P
Diazinon	30	100	ND	P	Phosmet	30	100	ND	P
Dichlorvos	30	100	ND	P	Piperonyl Butoxide	30	100	ND	P
Dimethoate	30	100	ND	P	Prallethrin	30	100	ND	P
Dimethomorph	30	100	ND	P	Propiconazole	30	100	ND	P
Ethoprophos	30	100	ND	P	Propoxur	30	100	ND	P
Etofenprox	30	100	ND	P	Pyrethrins	30	100	ND	P
Etoazale	30	100	ND	P	Pyridaben	30	100	ND	P
Fenhexamid	30	100	ND	P	Spinetoram	30	100	ND	P
Fenoxycarb	30	100	ND	P	Spinosad	30	100	ND	P
Fenpyroximate	30	100	ND	P	Spirotetramat	30	100	ND	P
Fipronil	30	100	ND	P	Spiroxamine	30	100	ND	P
Flonicamid	30	100	ND	P	Tebuconazole	30	100	ND	P
Fludioxonil	30	100	ND	P	Thiacloprid	30	100	ND	P
					Thiamethoxam	30	100	ND	P
					Trifloxystrobin	30	100	ND	P

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Generated By: Ryan Bellone
 Commercial Director
 Date: 08/09/2022



Tested By: Jared Burkhart
 Technical Manager
 Date: 07/29/2022



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Client
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Mycotoxins by LC-MS/MS

Analyte	LOD (ppb)	LOQ (ppb)	Result (ppb)	P/F
B1	1	5	ND	P
B2	1	5	ND	P
G1	1	5	ND	P
G2	1	5	ND	P

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; P = Pass; F = Fail; RL = Reporting Limit



Generated By: Ryan Bellone
 Commercial Director
 Date: 08/09/2022



Tested By: Jared Burkhart
 Technical Manager
 Date: 07/29/2022



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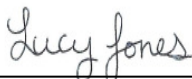
Microbials by PCR and Plating

Analyte	LOD (CFU/g)	Result (CFU/g)	P/F
Total aerobic count	1	ND	P
Total coliforms	1	ND	P
Generic E. coli	1	ND	P
Salmonella spp.	1	ND	P
Shiga-toxin producing E. coli (STEC)	1	ND	P

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; CFU = Colony Forming Units; P = Pass; F = Fail; RL = Reporting Limit



Generated By: Ryan Bellone
 Commercial Director
 Date: 08/09/2022



Tested By: Lucy Jones
 Senior Laboratory Technician
 Date: 07/27/2022



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Residual Solvents by HS-GC-MS/MS

Analyte	LOD (ppm)	LOQ (ppm)	Result (ppm)	P/F	Analyte	LOD (ppm)	LOQ (ppm)	Result (ppm)	P/F
Acetone	167	500	ND	P	Ethylene Glycol	21	62	ND	P
Acetonitrile	14	41	ND	P	Ethylene Oxide	0.5	1	ND	P
Benzene	0.5	1	ND	P	Heptane	167	500	ND	P
Butane	167	500	ND	P	n-Hexane	10	29	ND	P
1-Butanol	167	500	ND	P	Isobutane	167	500	ND	P
2-Butanol	167	500	ND	P	Isopropyl Acetate	167	500	ND	P
2-Butanone	167	500	ND	P	Isopropyl Alcohol	167	500	ND	P
Chloroform	2	6	ND	P	Isopropylbenzene	167	500	ND	P
Cyclohexane	129	388	ND	P	Methanol	100	300	ND	P
1,2-Dichloroethane	0.5	1	ND	P	2-Methylbutane	10	29	ND	P
1,2-Dimethoxyethane	4	10	ND	P	Methylene Chloride	20	60	ND	P
Dimethyl Sulfoxide	167	500	ND	P	2-Methylpentane	10	29	ND	P
N,N-Dimethylacetamide	37	109	ND	P	3-Methylpentane	10	29	ND	P
2,2-Dimethylbutane	10	29	ND	P	n-Pentane	167	500	ND	P
2,3-Dimethylbutane	10	29	ND	P	1-Pentanol	167	500	ND	P
N,N-Dimethylformamide	30	88	ND	P	n-Propane	167	500	ND	P
2,2-Dimethylpropane	167	500	ND	P	1-Propanol	167	500	ND	P
1,4-Dioxane	13	38	ND	P	Pyridine	7	20	ND	P
Ethanol	167	500	ND	P	Tetrahydrofuran	24	72	ND	P
2-Ethoxyethanol	6	16	ND	P	Toluene	30	89	ND	P
Ethyl Acetate	167	500	ND	P	Trichloroethylene	3	8	ND	P
Ethyl Ether	167	500	ND	P	Tetramethylene Sulfone	6	16	ND	P
Ethylbenzene	3	7	ND	P	Xylenes (o-, m-, and p-)	73	217	ND	P

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Generated By: Ryan Bellone
 Commercial Director
 Date: 08/09/2022



Tested By: Scott Caudill
 Senior Scientist
 Date: 08/01/2022



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Reporting Limit Appendix

Heavy Metals - Colorado CDPHE

Analyte	Limit (ppb)	Analyte	Limit (ppb)
Arsenic	1500	Lead	500
Cadmium	500	Mercury	1500

Microbials -

Analyte	Limit (CFU/g)	Analyte	Limit (CFU/g)
Total coliforms	100	Total aerobic count	100000

Residual Solvents - USP 467

Analyte	Limit (ppm)	Analyte	Limit (ppm)
Acetone	5000	Ethylene Glycol	620
Acetonitrile	410	Ethylene Oxide	1
Benzene	2	Heptane	5000
Butane	5000	n-Hexane	290
1-Butanol	5000	Isobutane	5000
2-Butanol	5000	Isopropyl Acetate	5000
2-Butanone	5000	Isopropyl Alcohol	5000
Chloroform	60	Isopropylbenzene	5000
Cyclohexane	3880	Methanol	3000
1,2-Dichloroethane	5	2-Methylbutane	290
1,2-Dimethoxyethane	100	Methylene Chloride	600
Dimethyl Sulfoxide	5000	2-Methylpentane	290
N,N-Dimethylacetamide	1090	3-Methylpentane	290
2,2-Dimethylbutane	290	n-Pentane	5000
2,3-Dimethylbutane	290	1-Pentanol	5000
N,N-Dimethylformamide	880	n-Propane	5000
2,2-Dimethylpropane	5000	1-Propanol	5000
1,4-Dioxane	380	Pyridine	200
Ethanol	5000	Tetrahydrofuran	720
2-Ethoxyethanol	160	Toluene	890
Ethyl Acetate	5000	Trichloroethylene	80
Ethyl Ether	5000	Tetramethylene Sulfone	160
Ethylbenzene	70	Xylenes (o-, m-, and p-)	2170

Pesticides - CA DCC

Analyte	Limit (ppb)	Analyte	Limit (ppb)
Azoxystrobin	40000	Imidacloprid	3000
Bifenazate	5000	Kresoxim methyl	1000
Bifenthrin	500	Malathion	5000
Boscalid	10000	Metalaxyl	15000
Carbaryl	500	Methiocarb	30
Carbofuran	30	Methomyl	100
Chloranthraniliprole	40000	Mevinphos	30
Chlorfenapyr	30	Myclobutanil	9000
Chlorpyrifos	30	Naled	500
Clofentezine	500	Oxamyl	200
Coumaphos	30	Pacllobutrazol	30
Daminozide	30	Permethrin	20000
Diazinon	200	Phosmet	200
Dichlorvos	30	Piperonyl Butoxide	8000
Dimethoate	30	Prallethrin	400
Dimethomorph	20000	Propiconazole	20000
Ethoprophos	30	Propoxur	30
Etofenprox	30	Pyrethrins	1000
Etoxazole	1500	Pyridaben	3000
Fenhexamid	10000	Spinetoram	3000
Fenoxycarb	30	Spinosad	3000
Fenpyroximate	2000	Spirotetramat	13000
Fipronil	30	Spiroxamine	30
Fonicamid	2000	Tebuconazole	2000
Fludioxonil	30000	Thiacloprid	30

Mycotoxins - Colorado CDPHE

Analyte	Limit (ppm)	Analyte	Limit (ppm)
B1	5	B2	5
G1	5	G2	5

Pesticides - CA DCC

Analyte	Limit (ppb)	Analyte	Limit (ppb)
Acephate	5000	Hexythiazox	2000
Acetamiprid	5000	Imazalil	30

