



Certificate of Analysis
Compliance Test

Client Information:

Sympleaf
290 Hilderbrand Dr
B-3
Sandy Springs, GA 30328

Batch # 233DNBLR4
Batch Date: 2023-03-20
Extracted From: Hemp

Test Reg State: Florida

Order #GRO230320-050001
Order Date: 2023-03-20
Sample # AAEG062

Sampling Date: 2023-03-21
Lab Batch Date: 2023-03-21
Completion Date: 2023-03-27

Initial Gross Weight: 28.378 g
Net Weight: 27.478 g

Number of Units: 1
Net Weight per Unit: 4.800 g
Sampling Method: MSP 7.3.1



Product Image

Potency Tested **Heavy Metals Passed** **Mycotoxins Passed** **Pesticides Passed** **Residual Solvents Passed**
Water Activity Tested **Pathogenic Microbiology Passed** **Listeria Monocytogenes Passed**

Potency 10
Specimen Weight: 1529.600 mg

Tested
SOP13.001 (LCUV)

Pieces For Panel: 6

Analyte	Dilution (1:n)	LOD (%)	LOQ (%)	Result (mg/g)	(%)
Delta-9 THC	10.000	1.30E-5	0.0015	2.5900	0.2590
CBC	10.000	1.80E-5	0.0015	<LOQ	<LOQ
CBD	10.000	5.40E-5	0.0015	<LOQ	<LOQ
CBDA	10.000	1.00E-5	0.0015	<LOQ	<LOQ
CBDV	10.000	6.50E-5	0.0015	<LOQ	<LOQ
CBG	10.000	2.48E-4	0.0015	<LOQ	<LOQ
CBGA	10.000	8.00E-5	0.0015	<LOQ	<LOQ
CBN	10.000	1.40E-5	0.0015	<LOQ	<LOQ
THC A-A	10.000	3.20E-5	0.0015	<LOQ	<LOQ
THCV	10.000	7.00E-6	0.0015	<LOQ	<LOQ
Total Active CBD	100.000			<LOQ	<LOQ
Total Active THC	100.000			2.590	0.259

Potency Summary

Total Active THC 0.259%	12.430mg	Total Active CBD -	None Detected
Total CBG -	None Detected	Total CBN -	None Detected
Other Cannabinoids -	None Detected	Total Cannabinoids 0.259%	12.430mg

Mycotoxins
Specimen Weight: 264.200 mg

Dilution Factor: 5.680

Analyte	LOD (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
A atoxin B13.0400E-1	6	20	<LOQ	atoxin G2	2.7100E-1	6	20	<LOQ
A atoxin B27.7000E-2	6	20	<LOQ	Ochratoxin A	7.5400E-1	3.8	20	<LOQ
A atoxin G13.0400E-1	6	20	<LOQ					

Passed
SOP13.007 (LCMS)

Pathogenic Microbiology
SAE (MicroArray)
Specimen Weight: 1030.430 mg
Dilution Factor: 1.000

Analyte	Result (cfu/g)	Analyte	Result (cfu/g)
Aspergillus avus	Absence in 1g	Aspergillus terreus	Absence in 1g
Aspergillus fumigatus	Absence in 1g	Salmonella	Absence in 1g
Aspergillus niger	Absence in 1g	STEC E. Coli	Absence in 1g

Aixia Sun
Aixia Sun Lab Director/Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)



Definitions and Abbreviations used in this report: Total Active CBD = CBD + (CBD-A * 0.877) * Total CBDV = CBDV + (CBDVA * 0.87), Total Active THC = THCA-A * 0.877 + Delta 9 THC, Total THCV = THCV + (THCVA * 0.87), CBG Total = (CBGA * 0.877) + CBG, CBN Total = (CBNA * 0.877) + CBN, Total CBC = CBC + (CBCA * 0.877), Total THC-O-Acetate = Delta 8 THC-O-Acetate + Delta 9 THC-O-Acetate, Total THCP = Delta8-THCP + Delta9-THCP, Other Cannabinoids Total = Total Cannabinoids - All the listed cannabinoids on the summary section, Total Detected Cannabinoids = Delta6a10a-THC + Delta8-THC + Total CBN + CBT + CBE + Delta8-THCV + Total CBG + Total CBD + Total THCV + CBL + Total THC + Total CBC + Total CBDV + Delta10-THC + Total THC-O-Acetate + Total THCP. (mg/ml) = Milligrams per Milliliter, LOQ = Limit of Quantitation, LOD = Limit of Detection, Dilution = Dilution Factor (ppb) = Parts per Billion, (%) = Percent, (cfu/g) = Colony Forming Unit per Gram (cfu/g) = Colony Forming Unit per Gram, LOD = Limit of Detection, (µg/g) = Microgram per Gram (ppm) = Parts per Million, (ppm) = (µg/g), (aw) = aw (area ratio) = Area Ratio, (mg/Kg) = Milligram per Kilogram, Passed - Analyte/microbe is non-detected or at the level below the action limit, Failed - Analyte/microbe is at the level that equal or above the action limit, *Measurement of Uncertainty = +/- 10%
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Pesticides
Specimen Weight: 264.200 mg
Dilution Factor: 5.680

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb) Analyte	LOD (ppb) LOQ (ppb) Action Level (ppb)
Abamectin	2.8800E-1	28.23	300	<LOQ Fludioxonil	1.7400E+0 48 3000 <LOQ Analyte
Acephate	2.3000E-2	30	3000	<LOQ Hexythiazox	4.9000E-2 30 2000 <LOQ Water Activity
Acequinocyl	9.5640E+0	48	2000	<LOQ Imazalil	2.4800E-1 30 100 <LOQ
Acetamidiprid	5.2000E-2	30	3000	<LOQ Imidacloprid	9.4000E-2 30 3000 <LOQ
Aldicarb	2.6000E-2	30	100	<LOQ Kresoxim Methyl	4.2000E-2 30 1000 <LOQ
Azoxystrobin	8.1000E-2	10	3000	<LOQ Malathion	8.2000E-2 30 2000 <LOQ
Bifenazate	1.4150E+0	30	3000	<LOQ Metalaxyl	8.1000E-2 10 3000 <LOQ Analyte
Bifenthrin	4.3000E-2	30	500	<LOQ Methiocarb	3.2000E-2 30 100 <LOQ
Boscalid	5.5000E-2	10	3000	<LOQ Methomyl	Listeria Monocytogenes
Captan	6.1200E+0	30	3000	<LOQ methyl-Parathion	2.2000E-2 30 100 <LOQ
Carbaryl	2.2000E-2	10	500	<LOQ Mevinphos	1.7100E+0 10 100 <LOQ
Carbofuran	3.4000E-2	10	100	<LOQ Myclobutanil	2.1500E+0 10 100 <LOQ
Chlorantraniliprole	3.3000E-2	10	3000	<LOQ Naled	1.0290E+0 30 3000 <LOQ
Chlordane	1.0000E+1	10	100	<LOQ Oxamyl	9.5000E-2 30 500 <LOQ
Chlorfenapyr	3.4000E-2	30	100	<LOQ Paclbutrazol	2.5000E-2 30 500 <LOQ
Chloromequat Chloride	1.0800E-1	10	3000	<LOQ Pentachloronitrobenzene	6.5000E-2 30 100 <LOQ
Chlorpyrifos	3.5000E-2	30	100	<LOQ Permethrin	1.3200E+0 10 200 <LOQ
Clofentazine	1.1900E-1	30	500	<LOQ Phosmet	3.4300E-1 30 1000 <LOQ
Coumaphos	3.7700E+0	48	100	<LOQ Piperonylbutoxide	8.2000E-2 30 200 <LOQ
Cyuthrin	3.1100E+0	30	1000	<LOQ Prallethrin	2.9000E-2 30 3000 <LOQ
Cypermethrin	1.4490E+0	30	1000	<LOQ Propiconazole	7.9800E-1 30 400 <LOQ
Daminozide	8.8500E-1	30	100	<LOQ Propoxur	7.0000E-2 30 1000 <LOQ
Diazinon	4.4000E-2	30	200	<LOQ Pyrethrins	4.6000E-2 30 100 <LOQ
Dichlorvos	2.1820E+0	30	100	<LOQ Pyridaben	2.3593E+1 30 1000 <LOQ
Dimethoate	2.1000E-2	30	100	<LOQ Spinetoram	3.2000E-2 30 3000 <LOQ
Dimethomorph	5.8300E+0	48	3000	<LOQ Spinosad	8.0000E-2 10 3000 <LOQ
Ethoprophos	3.6000E-1	30	100	<LOQ Spiromesifen	8.8000E-2 30 3000 <LOQ
Etofenprox	1.1600E-1	30	100	<LOQ Spirotetramat	2.6100E-1 30 3000 <LOQ
Etoxazole	9.5000E-2	30	1500	<LOQ Spiroxamine	8.9000E-2 30 3000 <LOQ
Fenhexamid	5.1000E-1	10	3000	<LOQ Tebuconazole	1.3100E-1 30 100 <LOQ
Fenoxycarb	1.0700E-1	30	100	<LOQ Thiacloprid	6.7000E-2 30 1000 <LOQ
Fenpyroximate	1.3800E-1	30	2000	<LOQ Thiamethoxam	6.4000E-2 30 100 <LOQ
Fipronil	1.0700E-1	30	100	<LOQ Trioxystrobin	5.0000E-2 30 1000 <LOQ
Fonicamid	5.1700E-1	30	2000	<LOQ	3.7000E-2 30 3000 <LOQ

Passed
SOP13.007
(LCMS/GCMS)

Water Activity
Net Weight: 27.478 g

Tested
SOP13.016
(Water Activity Analyzer)

Listeria Monocytogenes
Specimen Weight: 991.720 mg

Passed
SOP13.032
(qPCR)

Aixia Sun
Aixia Sun Lab Director/Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)

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Residual Solvents - FL (CBD)
Specimen Weight: 308.600 mg

Dilution Factor: 1.000

Analyte	LOD (ppm)	LOQ (ppm)	Action Level (ppm)	Result (ppm)	Analyte	LOD (ppm)	LOQ (ppm)	Action Level (ppm)	Result (ppm)
1,1-Dichloroethene	0.0094		8	<LOQ	Heptane	0.0013		5000	<LOQ
1,2-Dichloroethane	0.0003	0.16	5	<LOQ	Hexane	0.068	1.39	290	<LOQ
Acetone	0.015	0.04	5000	<LOQ	Isopropyl alcohol	0.0048	1.17	500	<LOQ
Acetonitrile	0.06	2.08	410	<LOQ	Methanol	0.0005	1.39	3000	<LOQ
Benzene	0.0002	1.17	2	<LOQ	Methylene chloride	0.0029	0.69	600	<LOQ
Butanes	0.4167	0.02	2000	<LOQ	Pentane	0.037	2.43	5000	<LOQ
Chloroform	0.0001	2.5	60	<LOQ	Propane	0.031	2.08	2100	<LOQ
Ethanol	0.0021	0.04	5000	481.193	Toluene	0.0009	5.83	890	<LOQ
Ethyl Acetate	0.0012	2.78	5000	<LOQ	Total Xylenes	0.0001	2.92	2170	<LOQ
Ethyl Ether	0.0049	1.11	5000	<LOQ	Trichloroethylene	0.0014	2.92	80	<LOQ
Ethylene Oxide	0.0038	1.39	5	<LOQ			0.49		

Passed

SOP13.039 (GCMS)

Heavy Metals
Specimen Weight: 247.510 mg

Dilution Factor:

202 Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Arsenic (As)			1500	<LOQ	Lead (Pb)	11.76		500	<LOQ
Cadmium (Cd)	4.83	100	500	<LOQ	Mercury (Hg)	.58	100	3000	<LOQ
	.64	100					100		

Passed

SOP13.048 (ICP-MS)

Aixia Sun
Aixia Sun Lab Director/Principal Scientist
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