



DEA No. RA0571996  
 FL License # CMTL-0003  
 CLIA No. 10D1094068

# Certificate of Analysis

## Compliance Test

**SAGE ESSENTIALS**  
 1298 Fieldview Trail  
 Howell, MI 48843

Batch # B5042822  
 Batch Date: 2022-04-28  
 Extracted From: HEMP

Sampling Method: MSP 7.3.1  
 Test Reg State: Florida

Production Facility: ALKUHME  
 Production Date: 2022-04-28

Order # ALK220428-010001  
 Order Date: 2022-04-28  
 Sample # AACT653

Sampling Date: 2022-04-29  
 Lab Batch Date: 2022-04-29  
 Completion Date: 2022-05-03

Initial Gross Weight: 145.793 g  
 Net Weight: 75.607 g

Number of Units: 1  
 Net Weight per Unit: 76700.000 mg



Product Image

<b>Potency Tested</b>	<b>Heavy Metals Passed</b>	<b>Mycotoxins Passed</b>	<b>Pesticides Passed</b>	<b>Residual Solvents Passed</b>
<b>Listeria Monocytogenes Passed</b>	<b>Pathogenic Passed</b>			

Analyte	Dilution (1-?)	LOQ (%)		Result (mg/g)	Result (%)
		LOQ (%)	LOQ (%)		
CBD	1000.000	0.000054	0.002	14.750	1.475
CBG	1000.000	0.000248	0.002	13.810	1.381
CBC	1000.000	0.000018	0.002	<LOQ	
THCA	1000.000	0.000032	0.002	<LOQ	
Delta9 THC	1000.000	0.000013	0.002	<LOQ	
CBN	1000.000	0.000014	0.002	<LOQ	
CBGA	1000.000	0.000008	0.002	<LOQ	
CBDV	1000.000	0.000065	0.002	<LOQ	
CBDA	1000.000	0.000001	0.002	<LOQ	
THCV	1000.000	0.000007	0.002	<LOQ	

Total THC		Total CBD	
-	None Detected	1.475%	1,131.330mg
Total CBG		Total CBN	
1.381%	1,059.230mg	-	None Detected
Other Cannabinoids		Total Cannabinoids	
-	None Detected	2.856%	2,190.550mg

*Xueli Gao*  
 Xueli Gao  
 Ph.D., DABT  
 Lab Toxicologist

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



Definitions and Abbreviations used in this report: \*Total CBD = CBD + (CBD-A \* 0.877), \*Total CBDV = CBDV + (CBDVA \* 0.877), \*Total THC = THCA-A \* 0.877 + Delta 9 THC, \*Total THCV = THCV + (THCVA \* 0.877), \*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, \*Other Cannabinoids Total = Total Cannabinoids - All the listed cannabinoids on the summary section, \*Total Detected Cannabinoids = Delta9-THC + Delta8-THC + Total CBN + CBG + Delta9-THCV + Total CBG + Total CBD + Total THCV + CBC + Total THC + Total CBC + Total CBDV + Delta10-THC + Total THC-O-Acetate, \*Analyte Details above show the Dry Weight Concentrations unless specified as 12% moisture concentration (mg/ml) = Milligrams per Milliliter, LOQ = Limit of Quantitation, 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, (ug/g) = Microgram per Gram (ppm) = Parts per Million, (ppm) = (ug/g), (ak) = ak (area ratio) = Area Ratio, (mg/Kg) = Milligram per Kilogram, \*Measurement of Uncertainty = +/- 10%

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### Pesticides FL V4

Specimen Weight: 271.600 mg

Dilution Factor: 5.523

Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Abaractin	28.23	300	<LOQ	Fludioxonil	48	3000	<LOQ
Acephate	30	3000	<LOQ	Hexythiazos	30	2000	<LOQ
Acequinocyl	48	2000	<LOQ	Imazalil	30	100	<LOQ
Acetamiprid	30	3000	<LOQ	Imidacloprid	30	3000	<LOQ
Aldicarb	30	100	<LOQ	Knoxoxim Methyl	30	1000	<LOQ
Azoxystrobin	10	3000	<LOQ	Malathion	30	2000	<LOQ
Bifenoxate	30	3000	<LOQ	Metaxaryl	10	3000	<LOQ
Bifenthrin	30	500	<LOQ	Methiocarb	30	100	<LOQ
Boscalid	10	3000	<LOQ	Methomyl	30	100	<LOQ
Captan	30	3000	<LOQ	methylParathion	10	100	<LOQ
Carbaryl	10	500	<LOQ	Mevinphos	10	100	<LOQ
Carbofuran	10	100	<LOQ	Myslobutanil	30	3000	<LOQ
Chlorantraniliprole	10	3000	<LOQ	Naled	30	500	<LOQ
Chlorfane	10	100	<LOQ	Oxaryl	30	500	<LOQ
Chlorfenapyr	30	100	<LOQ	Paclobutrazol	30	100	<LOQ
Chloromequat Chloride	10	3000	<LOQ	Pentachloronitrobenzene	10	200	<LOQ
Chlorpyrifos	30	100	<LOQ	Permethrin	30	1000	<LOQ
Clofentezine	30	500	<LOQ	Phosmet	30	200	<LOQ
Coumaphos	48	100	<LOQ	Piperonylbutoxide	30	3000	<LOQ
Cyfluthrin	30	1000	<LOQ	Prallethrin	30	400	<LOQ
Cypermethrin	30	1000	<LOQ	Propiconazole	30	1000	<LOQ
Daminozide	30	100	<LOQ	Propoxur	30	100	<LOQ
Diazinon	30	200	<LOQ	Pyrethrins	30	1000	<LOQ
Dichlorvos	30	100	<LOQ	Pyridaben	30	3000	<LOQ
Dimethoate	30	100	<LOQ	Spinetoram	10	3000	<LOQ
Dimethomorph	48	3000	<LOQ	Spinosad	30	3000	<LOQ
Ethionphos	30	100	<LOQ	Spiromesifen	30	3000	<LOQ
Etofenprox	30	100	<LOQ	Spirotetramat	30	3000	<LOQ
Etoxazole	30	1500	<LOQ	Sproxamine	30	100	<LOQ
Fenhexamid	10	3000	<LOQ	Tebuconazole	30	1000	<LOQ
Fenprocarb	30	100	<LOQ	Thiacloprid	30	100	<LOQ
Fenpyroximate	30	2000	<LOQ	Thiamethoxam	30	1000	<LOQ
Fipronil	30	100	<LOQ	Trifloxystrobin	30	3000	<LOQ
Floxiamid	30	2000	<LOQ				

### Passed (LCMS/GCMS)

### Residual Solvents - FL (CBD)

Specimen Weight: 166.500 mg

Dilution Factor: 5000.000

Analyte	LOQ (ppm)	Action Level (ppm)	Result (ppm)	Analyte	LOQ (ppm)	Action Level (ppm)	Result (ppm)
1,1-Dichloroethene	0.16	8	<LOQ	Heptane	1.39	5000	<LOQ
1,2-Dichloroethane	0.04	5	<LOQ	Hexane	1.17	200	<LOQ
Acetone	2.08	5000	<LOQ	Isopropyl alcohol	1.39	500	<LOQ
Acetonitrile	1.17	410	<LOQ	Methanol	0.69	3000	<LOQ
Benzene	0.02	2	<LOQ	Methylene chloride	2.43	500	<LOQ
Butanes	2.5	2000	<LOQ	Pentane	2.08	5000	<LOQ
Chloroform	0.04	60	<LOQ	Propane	5.83	2100	<LOQ
Ethanol	2.78	5000	<LOQ	Toluene	2.92	890	<LOQ
Ethyl Acetate	1.11	5000	<LOQ	Total Xylenes	2.92	2170	<LOQ
Ethyl Ether	1.39	5000	<LOQ	Trichloroethylene	0.49	80	<LOQ
Ethylene Oxide	0.1	5	<LOQ				

### Passed (GCMS)

### Mycotoxins

Specimen Weight: 271.600 mg

Dilution Factor: 5.523

Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Aflatoxin B1	6	20	<LOQ	Aflatoxin G2	6	20	<LOQ
Aflatoxin B2	6	20	<LOQ	Ochratoxin A	12	20	<LOQ
Aflatoxin G1	6	20	<LOQ				

### Passed (LCMS)

### Heavy Metals

Specimen Weight: 251.700 mg

Dilution Factor: 198

Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Arsenic (As)	100	1000	<LOQ	Lead (Pb)	100	500	<LOQ
Cadmium (Cd)	100	500	<LOQ	Mercury (Hg)	100	3000	<LOQ

### Passed (ICP-MS)

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 Lab Toxicologist  
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*Ania Sun*  
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 Lab Director/Principal Scientist  
 D.H.Sc., M.Sc., B.Sc., MT (ANB)

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### Pathogenic SAE (qPCR)

Specimen Weight: 244.120 mg

**Passed**  
(qPCR)

Dilution Factor: 1.000

Analyte	Action Level (cfu/g)	Result (cfu/g)	Analyte	Action Level (cfu/g)	Result (cfu/g)
Aspergillus (Flavus, Fumigatus, Niger, Terreus)	1	Absence in 1 g	Salmonella	1	Absence in 1 g
E.Coli	1	Absence in 1 g			

### Listeria Monocytogenes

Specimen Weight: 992.330 mg

**Passed**  
(qPCR)

Dilution Factor: 1.000

Analyte	Action Level (cfu/g)	Result
Listeria Monocytogenes	1	Absence in 1 g

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Lab Toxicologist

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