



License No. 800025015  
FL License # CMTL-0003  
CLIA No. 10D1094068

# Certificate of Analysis

## Compliance Test

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

Batch # B3020921  
Batch Date: 2021-02-09  
Extracted From: HEMP

Sampling Method: MSP 7.3.1 Test Reg  
State: Florida

Production Facility: ALKUHME  
Production Date: 2021-02-09

Order # ALK210211-090012  
Order Date: 2021-02-11  
Sample # AAAZ446

Sampling Date: 2021-02-15  
Lab Batch Date: 2021-02-15  
Completion Date: 2021-02-18

Initial Gross Weight: 77.553 g  
Net Weight: 28.514 g

Number of Units: 1  
Net Weight per Unit: 28514.000 mg

Potency  
Tested

Terpenes  
Tested

Heavy Metals  
Passed

Mycotoxins  
Passed

Pesticides  
Passed

Residual  
Solvents  
Passed

Listeria  
Monocytogenes  
Passed

Pathogenic  
Passed

Product Image

### Potency - 11

Specimen Weight: 83.310 mg

Analyte	Dilution (1:n)	LOD (%)	LOQ (%)	Result (mg/g)	(%)
CBD	10.000	0.000054	0.001	19.500	1.950
CBC	10.000	0.000018	0.001	1.440	0.144
Delta-9 THC	10.000	0.000013	0.001	0.724	0.072
CBG	10.000	0.000248	0.001	0.282	0.028
CBN	10.000	0.000014	0.001	<LOQ	<LOQ
Delta-8 THC	10.000	0.000026	0.001	<LOQ	<LOQ
CBGA	10.000	0.000008	0.001	<LOQ	<LOQ
THCV	10.000	0.000007	0.001	<LOQ	<LOQ
CBDV	10.000	0.000066	0.001	<LOQ	<LOQ
CBDa	10.000	0.000001	0.001	<LOQ	<LOQ
THCA-A	10.000	0.000032	0.001	<LOQ	<LOQ

### Tested (HPLC/LCMS)

### Potency Summary

1.950%	<b>Total CBD</b> 556.023mg	0.072%	<b>Total THC</b> 20.644mg
0.028%	<b>Total CBG</b> 8.041mg	<b>Total CBN</b> None Detected	
0.144%	<b>Other Cannabinoids</b> 41.060mg	<b>Total Cannabinoids</b> 625.768mg	

### Terpenes Summary

Analyte	Result (mg/ml) (%)
<b>Total Terpenes: 0%</b>	

Detailed Terpenes Analysis is on the following page

Xuell Gao  
Ph.D., GAST  
Lab Toxicologist

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



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Production Facility: ALKJHME  
Production Date: 2021-02-09

Order # ALK210211-090012  
Order Date: 2021-02-11  
Sample # AAA2446

Sampling Date: 2021-02-15  
Lab Batch Date: 2021-02-15  
Completion Date: 2021-02-18

Initial Gross Weight: 77,553 g  
Net Weight: 28,514 g

Number of Units: 1  
Net Weight per Unit: 28514.000 mg



**Terpenes - FL**

Specimen Weight: 47.210 mg

Tested  
(GC)

Dilution Factor: 1.000

Analyte	LOQ (%)	Result (mg/g)	(%)	Analyte	LOQ (%)	Result (mg/g)	(%)
(+)-Cedrol	0.02	<LOQ	<LOQ	Nerol	0.02	<LOQ	<LOQ
Geraniol	0.02	<LOQ	<LOQ	Geranyl acetate	0.02	<LOQ	<LOQ
Guaiol	0.02	<LOQ	<LOQ	Hexahydrothymol	0.02	<LOQ	<LOQ
Isoborneol	0.02	<LOQ	<LOQ	Isopulegol	0.02	<LOQ	<LOQ
Linolool	0.02	<LOQ	<LOQ	Ocimene	0.014	<LOQ	<LOQ
Fenchyl Alcohol	0.02	<LOQ	<LOQ	Pulegone	0.02	<LOQ	<LOQ
Sabinene	0.02	<LOQ	<LOQ	Sabinene Hydrate	0.02	<LOQ	<LOQ
Terpineol	0.02	<LOQ	<LOQ	Terpinolene	0.02	<LOQ	<LOQ
trans-Caryophyllene	0.02	<LOQ	<LOQ	trans-Nerolidol	0.02	<LOQ	<LOQ
Gamma-Terpinene	0.02	<LOQ	<LOQ	Fenchone	0.02	<LOQ	<LOQ
(R)-(+)-Limonene	0.02	<LOQ	<LOQ	alpha-Terpinene	0.02	<LOQ	<LOQ
3-Carene	0.02	<LOQ	<LOQ	alpha-Bisabolol	0.02	<LOQ	<LOQ
alpha-Cedrene	0.02	<LOQ	<LOQ	alpha-Humulene	0.02	<LOQ	<LOQ
alpha-Phellandrene	0.02	<LOQ	<LOQ	alpha-Pinene	0.02	<LOQ	<LOQ
Farnesene	0.02	<LOQ	<LOQ	beta-Myrcene	0.02	<LOQ	<LOQ
beta-Pinene	0.02	<LOQ	<LOQ	Borneol	0.04	<LOQ	<LOQ
Camphene	0.02	<LOQ	<LOQ	Camphors	0.04	<LOQ	<LOQ
Caryophyllene oxide	0.02	<LOQ	<LOQ	cis-Nerolidol	0.02	<LOQ	<LOQ
Eucalyptol	0.02	<LOQ	<LOQ	Valencene	0.02	<LOQ	<LOQ

Total Terpenes: 0%

*Xueli Gao*  
Xueli Gao  
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Lab Toxicologist

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



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<b>SAGE ESSENTIALS</b> 1298 Fieldview Trail Howell, MI 48843	Batch # B3020921 Batch Date: 2021-02-09 Extracted From: HEMP	Sampling Method: MSP 7.3.1 Test Reg State: Florida	Production Facility: ALKJHME Production Date: 2021-02-09
Order # ALK210211-090012 Order Date: 2021-02-11 Sample # AAAZ446	Sampling Date: 2021-02-15 Lab Batch Date: 2021-02-15 Completion Date: 2021-02-18	Initial Gross Weight: 77.553 g Net Weight: 28.514 g	Number of Units: 1 Net Weight per Unit: 28514.000 mg

**H Heavy Metals** Passed (ICP-MS)

Specimen Weight: 249.600 mg

Dilution Factor: 2.000

Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Arsenic (As)	100	1500	<LOQ	Cadmium (Cd)	100	500	<LOQ
Lead (Pb)	100	500	<LOQ	Mercury (Hg)	100	3000	<LOQ
Total Contaminant Load (TCL)	None Detected						

**Mycotoxins** Passed (LCMS)

Specimen Weight: 183.800 mg

Dilution Factor: 8.161

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

*Xuel Gao*      *Alisa Sun*  
Xuel Gao      Lab Toxicologist      Alisa Sun      Lab Director/Principal Scientist  
Ph.D., DABT      D.H.Sc., M.Sc., B.Sc., MT (AAB)

ISO 17025      FALA      CLIA

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State: Florida

Production Facility: ALKUHME  
Production Date: 2021-02-09

Order # ALK210211-090012  
Order Date: 2021-02-11  
Sample # AAA2446

Sampling Date: 2021-02-15  
Lab Batch Date: 2021-02-15  
Completion Date: 2021-02-18

Initial Gross Weight: 77.553 g  
Net Weight: 28.514 g

Number of Units: 1  
Net Weight per Unit: 28514.000 mg



**Pesticides FL V4**

Specimen Weight: 183.800 mg

**Passed**  
(LCMS/GCMS)

Dilution Factor: 8.161

Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Abamectin	28.23	300	<LOQ	Acetate	30	3000	<LOQ
Acequinocyl	48	2000	<LOQ	Acetamiprid	30	3000	<LOQ
Aldicarb	30	100	<LOQ	Azoxystrobin	10	3000	<LOQ
Bifenazate	30	3000	<LOQ	Bifenthrin	30	500	<LOQ
Boscalid	10	3000	<LOQ	Captaf	30	3000	<LOQ
Carbaryl	10	500	<LOQ	Carbofuran	10	100	<LOQ
Chlorantraniliprole	10	3000	<LOQ	Chlorfane	10	100	<LOQ
Chlorfenapyr	30	100	<LOQ	Chloromequat Chloride	10	3000	<LOQ
Chlorpyrifos	30	100	<LOQ	Cofenoxime	30	500	<LOQ
Coumaphos	48	100	<LOQ	Cyfluthrin	30	1000	<LOQ
Dypermethrin	30	1000	<LOQ	Daminozide	30	100	<LOQ
Diazinon	30	200	<LOQ	Dichlorvos	30	100	<LOQ
Dimethoate	30	100	<LOQ	Dimethomorph	48	3000	<LOQ
Ethionphos	30	100	<LOQ	Etofenprox	30	100	<LOQ
Etoxazole	30	1500	<LOQ	Fenhexamid	10	3000	<LOQ
Fenoxycarb	30	100	<LOQ	Fenpyroximate	30	2000	<LOQ
Fipronil	30	100	<LOQ	Fonicamid	30	2000	<LOQ
Fludioxonil	48	3000	<LOQ	Hexythiazox	30	2000	<LOQ
Imazalil	30	100	<LOQ	Imidacloprid	30	3000	<LOQ
Kresoxim Methyl	30	1000	<LOQ	Malathion	30	2000	<LOQ
Metadiazyl	10	3000	<LOQ	Methiocarb	30	100	<LOQ
Methomyl	30	100	<LOQ	methyl Parathion	10	100	<LOQ
Mevinphos	10	100	<LOQ	Myclobutanil	30	3000	<LOQ
Naled	30	300	<LOQ	Oxamyl	30	500	<LOQ
Permethrin	30	100	<LOQ	Pentachloronitrobenzene	10	200	<LOQ
Piperonylbutoxide	30	3000	<LOQ	Phosmet	30	200	<LOQ
Propiconazole	30	1000	<LOQ	Prallethrin	30	400	<LOQ
Pyrethrin	30	1000	<LOQ	Propoxur	30	100	<LOQ
Spinetoram	10	3000	<LOQ	Pyridaben	30	3000	<LOQ
Spinosad	30	3000	<LOQ	Spiromesifen	30	3000	<LOQ
Spiromesifen	30	3000	<LOQ	Spirotetramat	30	3000	<LOQ
Spraxamine	30	100	<LOQ	Tebuconazole	30	1000	<LOQ
Thiacloprid	30	100	<LOQ	Thiamethoxam	30	1000	<LOQ
Trifloxystrobin	30	3000	<LOQ	Total Contaminant Load (TCL)	None Detected		

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Lab Toxicologist

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Order Date: 2021-02-11  
Sample # AAA2446

Sampling Date: 2021-02-15  
Lab Batch Date: 2021-02-15  
Completion Date: 2021-02-18

Initial Gross Weight: 77.553 g  
Net Weight: 28.514 g

Number of Units: 1  
Net Weight per Unit: 28514.000 mg



### Residual Solvents - FL (CBD)

Specimen Weight: 8.500 mg

Passed  
(GCMS)

Dilution Factor: 1.000

Analyte	LOQ (ppm)	Action Level (ppm)	Result (ppm)	Analyte	LOQ (ppm)	Action Level (ppm)	Result (ppm)
1,1-Dichloroethane	0.16	8	<LOQ	1,2-Dichloroethane	0.04	5	<LOQ
Acetone	2.08	5000	<LOQ	Acetonitrile	1.17	410	<LOQ
Benzene	0.02	2	<LOQ	Butane	2.5	2000	<LOQ
Chloroform	0.04	50	<LOQ	Ethanol	2.78	5000	145.858
Ethyl Acetate	1.11	5000	<LOQ	Ethyl ether	1.39	5000	<LOQ
Ethylene Oxide	0.1	5	<LOQ	Heptane	1.39	5000	<LOQ
Hexane	1.17	250	<LOQ	Isopropyl alcohol	1.39	500	<LOQ
Methanol	0.69	3000	<LOQ	Methylene chloride	2.43	600	<LOQ
Pentane	2.08	5000	<LOQ	Propane	5.83	2100	<LOQ
Toluene	2.92	890	<LOQ	Total Xylenes	2.92	2170	<LOQ
Trichloroethylene	0.49	80	<LOQ				



### Listeria Monocytogenes

Specimen Weight: 980.270 mg

Passed  
(qPCR)

Dilution Factor: 1.000

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

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Number of Units: 1  
Net Weight per Unit: 28514.000 mg

**Pathogenic SAE (qPCR)**

Specimen Weight: 252.950 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 1g	E.Coli	1	Absence in 1g
			Salmonella	1	Absence in 1g

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