



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

Certificate of Analysis

Compliance Test

SAGE ESSENTIALS
1298 Fieldview Trail
Howell, MI 48843

Batch # B0011122
Batch Date: 2022-01-11
Extracted From: HEMP

Test Reg State: Florida

Production Facility: Alkermes, Inc.
Production Date: 2022-01-11

Order # ALK220112-010001
Order Date: 2022-01-12
Sample # AACJ019

Sampling Date: 2022-01-14
Lab Batch Date: 2022-01-14
Completion Date: 2022-01-17

Initial Gross Weight: 104.684 g
Net Weight: 29.984 g

Number of Units: 1
Net Weight per Unit: 30.800 g



Product Image

Potency
Tested

Potency - 11

Specimen Weight: 97.570 mg

Analyte	Dilution (1:n)	LOD (%)	LOQ (%)	Result (mg/g)	(%)
CBD	10.000	0.000054	0.001	9.366	0.937
CBC	10.000	0.000018	0.001	<LOQ	<LOQ
THCV	10.000	0.000007	0.001	<LOQ	<LOQ
Delta-9 THC	10.000	0.000013	0.001	<LOQ	<LOQ
Delta-8 THC	10.000	0.000026	0.001	<LOQ	<LOQ
CBN	10.000	0.000014	0.001	<LOQ	<LOQ
CBGA	10.000	0.00008	0.001	<LOQ	<LOQ
CBG	10.000	0.000248	0.001	<LOQ	<LOQ
CBDV	10.000	0.000065	0.001	<LOQ	<LOQ
CBDA	10.000	0.00001	0.001	<LOQ	<LOQ
THCA-A	10.000	0.000032	0.001	<LOQ	<LOQ

Tested (LCUV)

Potency Summary

Total THC None Detected	Total CBD 0.937% 288.596mg
Total CBG None Detected	Total CBN None Detected
Other Cannabinoids None Detected	Total Cannabinoids 0.937% 288.596mg

Xueli Gao
Ph.D., DABT
Lab Toxicologist

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



Definitions and Abbreviations used in this report: *Total CBD = CBD + (CBD-A * 0.877), *Total CBDV = CBDV + (CBDVA * 0.87), *Total 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-D-Acetate = Delta 8 THC-D-Acetate + Delta 9 THC-D-Acetate, *Other Cannabinoids Total = Total Cannabinoids - All the listed cannabinoids on the summary section, *Total Detected Cannabinoids = Delta-9-THC + Total CBN + CBT + Delta-8-THCV + Total CBG + Total CBD + Total THCV + CBL + Total THC + Total CBC + Total CBDV + Delta-10-THC + Total THC-D-Acetate, *Analyte Details above show the Dry Weight Concentrations unless specified as 12% moisture concentration, (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 (of a 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, *Measurement of Uncertainty = +/- 10%

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Batch # B2101121
Batch Date: 2021-10-11
Extracted From: HEMP

Sampling Method: MSP 7.3.1
Test Reg State: Florida

Production Facility: ALKJHME
Production Date: 2021-10-11

Order # ALK211013-030001
Order Date: 2021-10-13
Sample # AACB050

Sampling Date: 2021-10-14
Lab Batch Date: 2021-10-14
Completion Date: 2021-10-20

Initial Gross Weight: 396.500 g

Number of Units: 1
Net Weight per Unit: 242.000 g

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

Product Image

Potency - 11

Specimen Weight: 113.540 mg

Analyte	Dilution (1:n)	LOD (%)	LOQ (%)	Result (mg/g)	(%)
CBD	10.000	0.000054	0.001	2.068	0.207
CBC	10.000	0.000018	0.001	<LOQ	<LOQ
THCV	10.000	0.000007	0.001	<LOQ	<LOQ
Delta-9 THC	10.000	0.000013	0.001	<LOQ	<LOQ
Delta-8 THC	10.000	0.000026	0.001	<LOQ	<LOQ
CBN	10.000	0.000014	0.001	<LOQ	<LOQ
CBGA	10.000	0.00008	0.001	<LOQ	<LOQ
CBG	10.000	0.000248	0.001	<LOQ	<LOQ
CBDV	10.000	0.000065	0.001	<LOQ	<LOQ
CBDA	10.000	0.00001	0.001	<LOQ	<LOQ
THCA-A	10.000	0.000032	0.001	<LOQ	<LOQ

Tested (HPLC/LCMS)

Potency Summary

Total THC None Detected	Total CBD 0.207% 500.940mg
Total CBG None Detected	Total CBN None Detected
Other Cannabinoids None Detected	Total Cannabinoids 0.207% 500.940mg

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

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



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Production Date: 2021-10-11

Order # ALK211013-030001
Order Date: 2021-10-13
Sample # AACB050

Sampling Date: 2021-10-14
Lab Batch Date: 2021-10-14
Completion Date: 2021-10-20

Initial Gross Weight: 396.500 g

Number of Units: 1
Net Weight per Unit: 242.000 g

Heavy Metals

Specimen Weight: 245.000 mg

Passed
(ICP-MS)

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

Mycotoxins

Specimen Weight: 166.200 mg

Passed
(LCMS)

Dilution Factor: 9.025

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
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Ph.D., DABT
Lab Toxicologist

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



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Extracted From: HEMP

Sampling Method: MSP 7.3.1
Test Reg State: Florida

Production Facility: ALKJHME
Production Date: 2021-10-11

Order # ALK211013-030001
Order Date: 2021-10-13
Sample # AACB050

Sampling Date: 2021-10-14
Lab Batch Date: 2021-10-14
Completion Date: 2021-10-20

Initial Gross Weight: 396.500 g

Number of Units: 1
Net Weight per Unit: 242.000 g

Pesticides FL V4
Specimen Weight: 166.200 mg

Passed
(LCMS/GCMS)

Dilution Factor: 9.825

Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Abamectin	28.23	300	<LOQ	Acephate	30	3000	<LOQ
Acequinocyl	48	2000	<LOQ	Acetamiprid	30	3000	<LOQ
Aldicarb	30	100	<LOQ	Azoxystrobin	10	3000	<LOQ
Bifenthrin	30	3000	<LOQ	Bifenthrin	30	500	<LOQ
Boscalid	10	3000	<LOQ	Carotan	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	Clofentazone	30	500	<LOQ
Coumatralos	48	100	<LOQ	Cyfluthrin	30	1000	<LOQ
Cypermethrin	30	1000	<LOQ	Daminozide	30	100	<LOQ
Diazinon	30	200	<LOQ	Dichlorvos	30	100	<LOQ
Dimethoate	30	100	<LOQ	Dimethomorph	48	3000	<LOQ
Ethionprox	30	100	<LOQ	Etofenprox	30	100	<LOQ
Etoキサゾール	30	1500	<LOQ	Fenhexamid	10	3000	<LOQ
Fenoxycarb	30	100	<LOQ	Fenprosimate	30	2000	<LOQ
Fipronil	30	100	<LOQ	Flonicamid	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
Metaxyl	10	3000	<LOQ	Methoacarb	30	100	<LOQ
Methomyl	30	100	<LOQ	methyl-Parathion	10	100	<LOQ
Mevinphos	10	100	<LOQ	Myndobutanol	30	3000	<LOQ
Naled	30	500	<LOQ	Oxamyl	30	500	<LOQ
Pedobutrazol	30	100	<LOQ	Pentachloronitrobenzene	10	200	<LOQ
Permethrin	30	1000	<LOQ	Phosmet	30	200	<LOQ
Piperonylbutoxide	30	3000	<LOQ	Prallethrin	30	400	<LOQ
Propiconazole	30	1000	<LOQ	Propoxur	30	100	<LOQ
Pyrethrin	30	1000	<LOQ	Pyridaben	30	3000	<LOQ
Spinetoram	10	3000	<LOQ	Spinosad	30	3000	<LOQ
Spiromesifen	30	3000	<LOQ	Sprinetramet	30	3000	<LOQ
Sproxamine	30	100	<LOQ	Tebuconazole	30	1000	<LOQ
Thiacloprid	30	100	<LOQ	Thiamethoxam	30	1000	<LOQ
Trifloprothrin	30	3000	<LOQ				

Xueji Gao
Xueji Gao
Ph.D., DABT
Lab Toxicologist

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



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Production Date: 2021-10-11

Order # ALK211013-030001
Order Date: 2021-10-13
Sample # AACB050

Sampling Date: 2021-10-14
Lab Batch Date: 2021-10-14
Completion Date: 2021-10-20

Initial Gross Weight: 396.500 g

Number of Units: 1
Net Weight per Unit: 242.000 g



Residual Solvents - FL (CBD)

Specimen Weight: 12.100 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	Butanes	2.5	2000	<LOQ
Chloroform	0.04	50	Passed	Ethanol	2.78	5000	<LOQ
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	290	<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	3.92	850	<LOQ	Total Xylenes	2.92	2170	<LOQ
Trichloroethylene	0.49	80	<LOQ				

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

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



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Initial Gross Weight: 396.500 g

Number of Units: 1
Net Weight per Unit: 242.000 g

Pathogenic Microbiology SAE (MicroArray)

Specimen Weight: 1008.100 mg

Passed
(Micro Array)

Dilution Factor: 1.000

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

Listeria Monocytogenes

Specimen Weight: 1026.500 mg

Passed
(qPCR)

Dilution Factor: 1.000

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

Xueli Gao
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Lab Toxicologist

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