



October 12, 2021

To Whom it Will Concern,

XYMOGEN has verified that lot 38-20224-BSTF of raw material hemp extract oil is used in the following packaging lots of Hemp MonoPure®:

20003425
20003426
20003427
20003428

Respectfully submitted,
XYMOGEN Regulatory Affairs

Certificate of Analysis

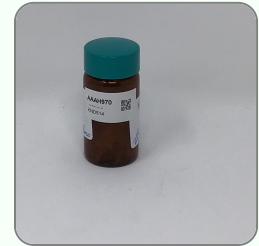
Order #: SUG200617-010091 Order Date: 2020-06-17 Collection Date: 2020-06-19 Report Date: 2020-10-05

Batch #: 38-20224-BSTF
Sample #: AAAH970
Specimen Type: CBD/HEMP Derivative Products (Ingestion)
Extracted From: Hemp
Description: Broad Spectrum THC free Distillate

Initial Gross Weight: 28807.000 mg
Method: SOP-3



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



The photos on this report are of a sample collected by the lab and may vary from the final packaging.

Total Cannabinoids 80.109%	Total CBD 76.530%	Total CBG 2.548%
Total CBN 0.631%	Other Cannabinoids 0.399%	Total THC Not Detected

Potency - 11 (Tested)

(HPLC/LCMS)

Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)
Total CBD	0	76.530	0.001	CBD	765.300	76.530	0.001	CBG	25.480	2.548	0.001
CBN	6.314	0.631	0.001	CBDV	3.994	0.399	0.001	CBC	<LOQ		0.001
Total THC		<LOQ	0.001	THCV		<LOQ	0.001	Delta-9 THC		<LOQ	0.001
Delta-8 THC		<LOQ	0.001	CBGA		<LOQ	0.001	CBDA		<LOQ	0.001
THCA-A		<LOQ	0.001								

*Total CBD = CBD + (CBD-A * 0.877), *Total THC = THCA-A * 0.877 + Delta 9 THC, *CBG Total = (CBGA * 0.877) + CBG, *CBN Total = (CBNA * 0.877) + CBN, *Other Cannabinoids Total = CBC + CBDV + THCV + THCV-A, *Total Detected Cannabinoids = CBD Total + CBG Total + CBN Total + THC Total + CBC + CBDV + THCV + THCV-A (mg/g) = Milligram per Gram, , LOQ = Limit of Quantitation, , LOD = Limit of Detection, *Measurement of Uncertainty = +/- 5%

Xueli Gao Lab Toxicologist
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Aixia Sun Lab Director/Principal Scientist
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Heavy Metals - SugarLeaf (Passed)

(ICP-MS)

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

(ppb) = Parts per Billion, (ppb) = (µg/kg), , LOQ = Limit of Quantitation

Mycotoxins (Passed)

(LCMS/API/GCMS)

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

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Pesticides - Sugar Leaf Labs (Passed)

(LCMS/API/GCMS)

Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)
Abamectin B1a	300	<LOQ	28.23	Acephate	5000	<LOQ	30	Acequinocyl	4000	<LOQ	48
Acetamiprid	5000	<LOQ	30	Aldicarb	0.5	<LOQ	0.5	Azoxystrobin	40000	<LOQ	10
Bifenazate	5000	<LOQ	30	Bifenthrin	500	<LOQ	30	Boscalid	10000	<LOQ	10
Captan	5000	<LOQ	30	Carbaryl	500	<LOQ	10	Carbofuran	0.25	<LOQ	0.25
Chlorantraniliprole	40000	<LOQ	10	Chlordane	2	<LOQ	2	Chlorfenapyr	1	<LOQ	1
Chloromequat Chloride	10	<LOQ	10	Chlorpyrifos	0.5	<LOQ	0.5	Clofentezine	500	<LOQ	30
Cypermethrin	1000	<LOQ	30	Coumaphos	0.003	<LOQ	0.003	Cyfluthrin	1000	<LOQ	30
Dichlorvos	30	<LOQ	30	Daminozide	2	<LOQ	2	Diazinon	200	<LOQ	30
Ethoprophos	1	<LOQ	1	Dimethoate	0.25	<LOQ	0.25	Dimethomorph	20000	<LOQ	48
Fenhexamid	10000	<LOQ	10	Etofenprox	0.5	<LOQ	0.5	Etoxazole	150	<LOQ	30
Fipronil	0.5	<LOQ	0.5	Fenoxycarb	1	<LOQ	1	Fenpyroximate	2000	<LOQ	30
Hexythiazox	2000	<LOQ	30	Fonicamid	2000	<LOQ	30	Fludioxonil	30000	<LOQ	48
Kresoxim Methyl	1000	<LOQ	30	Imazalil	1	<LOQ	1	Imidacloprid	3000	<LOQ	30
Methiocarb	1	<LOQ	1	Malathion	5000	<LOQ	30	Metalaxyl	15000	<LOQ	10
Mevinphos	1	<LOQ	1	Methomyl	100	<LOQ	30	methyl-Parathion	1	<LOQ	1
Oxamyl	200	<LOQ	30	Myclobutanil	9000	<LOQ	30	Naled	500	<LOQ	30
Permethrin	20000	<LOQ	30	Paclbutrazol	0.25	<LOQ	0.25	Pentachloronitrobenzene	200	<LOQ	10
Prallethrin	400	<LOQ	30	Phosmet	200	<LOQ	30	Piperonylbutoxide	8000	<LOQ	30
Pyrethrins	1000	<LOQ	30	Propiconazole	20000	<LOQ	30	Propoxur	0.25	<LOQ	0.25
Spinosad	3000	<LOQ	30	Pyridaben	3000	<LOQ	30	Spinetoram	3000	<LOQ	10
Spiroxamine	1	<LOQ	1	Spiromesifen	12000	<LOQ	30	Spirotetramat	13000	<LOQ	30
Thiamethoxam	4500	<LOQ	30	Tebuconazole	2000	<LOQ	30	Thiacloprid	1	<LOQ	1
				Trifloxystrobin	30000	<LOQ	30				

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Residual Solvents FL - SugarLeaf (Passed)

(GC/GCMS)

Analyte	Action Level	Result	LOQ	Analyte	Action Level	Result	LOQ	Analyte	Action Level	Result	LOQ
1,2-dichloroethane	1	<LOQ	0.04	Acetone	5000	<LOQ	2.08	Acetonitrile	410	<LOQ	1.17
Chloroform	1	<LOQ	0.04	Benzene	1	<LOQ	0.02	Butane	5000	<LOQ	2.5
Ethyl Ether	5000	<LOQ	1.39	Ethanol	5000	<LOQ	2.78	Ethyl Acetate	5000	<LOQ	1.11
Isopropanol	5000	<LOQ	1.39	Ethylene Oxide	1	<LOQ	0.1	Heptane	5000	<LOQ	1.39
n-Hexane	290	<LOQ	1.17	Methanol	3000	<LOQ	0.69	Methylene chloride	1	<LOQ	2.43
Toluene	890	<LOQ	2.92	Pentane	5000	<LOQ	2.08	Propane	5000	<LOQ	5.83
				Trichloroethylene	1	<LOQ	0.49	Xylenes	2170	<LOQ	2.92

, LOQ = Limit of Quantitation

Pathogenic Microbiology SAE (MicroArray) (Passed)

(Micro Array)

Analyte	Result (cfu/g)	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

(cfu/g) = Colony Forming Unit per Gram

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Listeria Monocytogenes (Passed)

(qPCR)

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

Microbiology (Petrifilm/Plating) - Sugar Leaf Labs (Tested)

(Petrifilm)

Analyte	Result (cfu/g)	LOQ (cfu/g)	Analyte	Result (cfu/g)	LOQ (cfu/g)	Analyte	Result (cfu/g)	LOQ (cfu/g)
Aerobic Bacteria	<100	10	E. Coli / Coliform	<100	10	Yeast/Mold	<100	10

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