

CERTIFICATE OF ANALYSIS



Customer: [REDACTED]

Order #: [REDACTED] Batch #: [REDACTED] Order Date: 10/24/2019 Collection Date: 10/24/2019 Report Date: 11/01/2019	Specimen Type: Extract Description: Oil Extracted From: Hemp Method: SOP-3	Initial Gross Weight: 25977.00(mg) Specimen Weight: 115.94(mg)
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Potency - 11

(HPLC)

Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)
CBC	1.960	0.196	0.001	CBD	79.140	7.914	0.001	CBDA	ND	ND	0.001
CBDV	ND	ND	0.001	CBG	0.642	0.064	0.001	CBGA	ND	ND	0.001
GBN	0.272	0.027	0.001	Delta-8-THC	ND	ND	0.001	Delta-9-THC	2.508	0.251	0.001
THCA-A	ND	ND	0.001	THCV	ND	ND	0.001	Total CBD	79.140	7.914	0.001
Total THC	2.508	0.251	0.001								

Pesticides (Passed)

(LCMS/MS)

Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)	Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)	Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)
Abamectin	0.500	<LOQ	0.100	Acetate	0.400	<LOQ	0.100	Acequinocyl	2.000	<LOQ	0.750
Acetamiprid	0.200	<LOQ	0.100	Aldicarb	0.400	<LOQ	0.100	Azoxystrobin	0.200	<LOQ	0.100
Bifenthrin	0.200	<LOQ	0.100	Bifenthrin	0.200	<LOQ	0.100	Boscalid	0.400	<LOQ	0.100
Carbaryl	0.200	<LOQ	0.100	Carbofuran	0.200	<LOQ	0.100	Chlorantraniliprole	0.200	<LOQ	0.100
Chlorpyrifos	0.200	<LOQ	0.100	Clofentezine	0.200	<LOQ	0.100	Cypermethrin	1.000	<LOQ	0.100
Daminozide	1.000	<LOQ	0.100	Diazinon	0.200	<LOQ	0.100	Dichlorvos	0.100	<LOQ	0.100
Dimethoate	0.200	<LOQ	0.100	Ethoprophos	0.200	<LOQ	0.100	Etofenprox	0.400	<LOQ	0.100
Etoazole	0.200	<LOQ	0.100	Fenoxycarb	0.200	<LOQ	0.100	Fipronil	0.400	<LOQ	0.100
Flonicamid	1.000	<LOQ	0.100	Fludioxonil	0.400	<LOQ	0.100	Hexythiazox	1.000	<LOQ	0.100
Imazalil	0.200	<LOQ	0.100	Imidacloprid	0.400	<LOQ	0.100	Kresoxim Methyl	0.400	<LOQ	0.100
Malathion A	0.200	<LOQ	0.100	Metaxyl	0.200	<LOQ	0.100	Methiocarb	0.200	<LOQ	0.100
Methomyl	0.400	<LOQ	0.100	MIG-264	0.200	<LOQ	0.100	Myclobutanil	0.200	<LOQ	0.100
Naled	0.500	<LOQ	0.100	Oxemyl	1.000	<LOQ	0.100	Paclitaxel	0.400	<LOQ	0.100
Parathion-methyl	0.200	<LOQ	0.250	Parmethrin	0.200	<LOQ	0.100	Phosmet	0.200	<LOQ	0.100
Piperonylbutoxide	2.000	<LOQ	0.100	Prallethrin	0.200	<LOQ	0.100	Propiconazole	0.400	<LOQ	0.100
Propoxur	0.200	<LOQ	0.100	Pyrethrin	1.000	<LOQ	0.100	Pyridaben	0.200	<LOQ	0.100
Spinosyn A	0.200	<LOQ	0.100	Spinosyn D	0.200	<LOQ	0.100	Spiromesifen	0.200	<LOQ	0.100
Spirotetramet	0.200	<LOQ	0.100	Spiroxamine	0.400	<LOQ	0.100	Tebuconazole	0.400	<LOQ	0.100
Thiacloprid	0.200	<LOQ	0.100	Thiamethoxam	0.200	<LOQ	0.100	Trifloxystrobin	0.200	<LOQ	0.100

[REDACTED]
 Lab Toxicologist

[REDACTED]
 Principal Scientist

* Total CBD = CBD + (CBD-A * 0.877). Total THC = THCA-A * 0.877 + Delta 9 THC, ND = <LOQ, T-Caryophyllene = Trans-Caryophyllene, <LOQ = Less Than Limit of Quantitation, QNS = Quantity Not Sufficient. (%) = Percent, (ppm) = Parts per Million, (ppb) = Parts per Billion, (µg/Kg) = Microgram per Kilogram, (mg/g) = Milligram per Gram, ppm = (µg/g), ppb = (µg/kg).

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[REDACTED]

CERTIFICATE OF ANALYSIS



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Order #: [REDACTED] Batch #: [REDACTED] Order Date: 10/24/2019 Collection Date: 10/24/2019 Report Date: 11/01/2019	Specimen Type: Extract Description: Oil Extracted From: Hemp Method: SOP-3	Initial Gross Weight: 25977.00(mg) Specimen Weight: 115.94(mg)
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Residual Solvents (Passed)								(GC/GCMS)			
Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)	Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)	Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)
Acetone	5,000.000	<LOQ	87.900	Benzene	1,600	<LOQ	1,600	Chloroform	53.000	<LOQ	53.000
Ethanol	5,000.000	<LOQ	26.700	Hexane	60.000	<LOQ	36.600	I-Butane	5,000.000	<LOQ	100.000
Isopropanol	5,000.000	<LOQ	52.300	Methanol	3,000.000	<LOQ	87.900	N-Butane	5,000.000	<LOQ	200.000
Pentane	5,000.000	<LOQ	389.500	Toluene	890.000	<LOQ	38.400				

Heavy Metals (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)	500.000	<LOQ	100.000	Cadmium (Cd)	500.000	<LOQ	100.000	Lead (Pb)	500.000	<LOQ	100.000
Mercury (Hg)	500.000	<LOQ	100.000								

Mycotoxins (Passed)								(LCMS/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)
Aflatoxin B1	<LOQ	<LOQ	6.000	Aflatoxin B2	<LOQ	<LOQ	6.000	Aflatoxin G1	<LOQ	<LOQ	6.000
Aflatoxin G2	<LOQ	<LOQ	6.000	Aflatoxin Total	20.000	<LOQ	6.000	Ochratoxin A	20.000	<LOQ	12.000

Pathogenic Microbiology (Passed)								(Micro Array)			
Analyte	Result	Analyte	Result	Analyte	Result	Analyte	Result				
Aspergillus Flavus	Absence	Aspergillus Fumigatus	Absence	Aspergillus Niger	Absence						
Aspergillus Terreus	Absence	Salmonella	Absence	STEC E. Coli	Absence						

Water Activity (Passed)			(AquaLab 4TE)		
Analyte	Action Level (aw)	Result (aw)			
Water Activity	0.850	0.409			

Filth and Foreign Material (Passed)			(Electronic Balance)					
Analyte	Action Level (area ratio)	Result (area ratio)	Analyte	Action Level (mg/kg)	Result (mg/kg)	Analyte	Action Level (%)	Result (%)
Covered Area	0.250	0.000	Feces	0.500	0.000	Weight %	5.000	0.000

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

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