

CERTIFICATE OF ANALYSIS

Customer: Louisville, KY 40223 -

Order #: 709146 Batch #: 19T500 Order Date: 11/19/2019 Collection Date: 11/19/2019 Report Date: 11/25/2019	Specimen Type: Extract Description: Method: SOP-3	Initial Gross Weight: 16423.00(mg) Specimen Weight: 116.71(mg)
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(HPLC)											
Potency - 11											
Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)
CBC		ND	0.001	CBD	42.850	4.285	0.001	CBDA		ND	0.001
CBDV		ND	0.001	CBG	0.275	0.027	0.001	CBGA		ND	0.001
CBN		ND	0.001	Delta-8-THC		ND	0.001	Delta-9-THC	1.212	0.121	0.001
THCA-A		ND	0.001	THCV	0.231	0.023	0.001	Total CBD	42.850	4.285	0.001
Total THC	1.212	0.121	0.001								

(LCMS/MS)											
Pesticides (Passed)											
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	100.000	<LOQ	30.000	Acephate	100.000	<LOQ	30.000	Acequinocyl	100.000	<LOQ	48.000
Acetamiprid	100.000	<LOQ	30.000	Aldicarb	50.000	<LOQ	30.000	Azoxystrobin	50.000	<LOQ	30.000
Bifenazate	100.000	<LOQ	30.000	Bifenthrin	100.000	<LOQ	30.000	Chlorfenapyr	50.000	<LOQ	30.000
Chlorpyrifos	100.000	<LOQ	30.000	Clofentezine	200.000	<LOQ	30.000	Coumaphos	50.000	<LOQ	30.000
Cyfluthrin	100.000	<LOQ	30.000	Cypermethrin	500.000	<LOQ	30.000	Daminozide	500.000	<LOQ	30.000
DDVP(Dichlorvos)	100.000	<LOQ	30.000	Diazinon	50.000	<LOQ	30.000	Dimethoate	50.000	<LOQ	30.000
Dimethomorph	50.000	<LOQ	30.000	Ethoprop(hos)	50.000	<LOQ	30.000	Etofenprox	50.000	<LOQ	30.000
Etoxazole	50.000	<LOQ	30.000	Fenhexamid	100.000	<LOQ	30.000	Fenoxycarb	50.000	<LOQ	30.000
Fipronil	50.000	<LOQ	30.000	Fonicamid	400.000	<LOQ	30.000	Fludioxonil	100.000	<LOQ	30.000
Hexythiazox	250.000	<LOQ	30.000	Imazalil	100.000	<LOQ	30.000	Imidacloprid	100.000	<LOQ	30.000
Kresoxim Methyl	100.000	<LOQ	30.000	Malathion A	50.000	<LOQ	30.000	Metalaxyl	50.000	<LOQ	30.000
Methiocarb	50.000	<LOQ	30.000	Methomyl	100.000	<LOQ	30.000	Mevinphos	50.000	<LOQ	30.000
Myclobutanil	100.000	<LOQ	30.000	Naled	250.000	<LOQ	30.000	Oxamyl	250.000	<LOQ	30.000
Paclobutrazol	50.000	<LOQ	30.000	Parathion-methyl	100.000	<LOQ	30.000	Pentachloronitrobenzene	50.000	<LOQ	30.000
Permethrin	100.000	<LOQ	30.000	Phosmet	100.000	<LOQ	30.000	Piperonylbutoxide	3,000.000	<LOQ	30.000
Prallethrin	100.000	<LOQ	30.000	Propiconazole	100.000	<LOQ	30.000	Propoxur	100.000	<LOQ	30.000
Pyrethrins	500.000	<LOQ	30.000	Pyridaben	200.000	<LOQ	30.000	Spinetoram	200.000	<LOQ	30.000
Spinosyn A	100.000	<LOQ	30.000	Spinosyn D	100.000	<LOQ	30.000	Spiromesifen	100.000	<LOQ	30.000
Spirotetramat	100.000	<LOQ	30.000	Spiroxamine	50.000	<LOQ	30.000	Tebuconazole	50.000	<LOQ	30.000
Thiacloprid	50.000	<LOQ	30.000	Thiamethoxam	50.000	<LOQ	30.000	Trifloxystrobin	100.000	<LOQ	30.000

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

Aixia Sun
 Aixia Sun, D.H.Sc., M.Sc., B.Sc., MT (AAB)
 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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Customer: Louisville, KY 40223 -

Order #: 709146
 Batch #: 19T500
 Order Date: 11/19/2019
 Collection Date: 11/19/2019
 Report Date: 11/25/2019

Specimen Type: Extract
 Description:
 Method: SOP-3

Initial Gross Weight: 16423.00(mg)
 Specimen Weight: 116.71(mg)

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				

Microbiology (qPCR) (Passed)

(qPCR)

Analyte	Remark	Analyte	Remark	Analyte	Remark
Total Aerobic Count	Passed	Total Coliform	Passed	Total Enterobacteriaceae	Passed
Total Yeast/Mold	Passed				

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								

Xueli Gao

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 Lab Toxicologist

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