



CERTIFICATE OF ANALYSIS



Customer: Naternal

Order #: 703731	Specimen Type: Extract	Initial Gross Weight: 33225.00(mg)
Batch #: FS120004	Description: 1200mg Tincture in MCT	Specimen Weight: 101.40(mg)
Order Date: 08/14/2019	Extracted From: Hemp	
Collection Date: 08/14/2019	Method: SOP-3	
Report Date: 08/23/2019		

Potency												(HPLC)		
Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)			
CBC	1.551	0.155	0.001	CBCA	ND	0.001	0.001	CBD	47.020	4.702	0.001			
CBDA	ND	0.001	0.001	CBDV	0.564	0.056	0.001	CBDVA	ND	0.001	0.001			
CBG	0.760	0.076	0.001	CBGA	ND	0.001	0.001	CBL	ND	0.001	0.001			
CBN	ND	0.001	0.001	CBNA	ND	0.001	0.001	Delta-8-THC	ND	0.001	0.001			
Delta-9-THC	1.719	0.172	0.001	THCA-A	ND	0.001	0.001	THCV	ND	0.001	0.001			
THCVA	ND	0.001	0.001	Total CBD	47.020	4.702	0.001	Total THC	1.719	0.172	0.001			

Thomas Farrell, MD
Lab Director

* 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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CERTIFICATE OF ANALYSIS

Customer: Naternal

Order #: 703730	Specimen Type: Extract	Initial Gross Weight: 38549.00(mg)
Batch #: FS60004	Description: 600mg Tincture in MCT	Specimen Weight: 95.03(mg)
Order Date: 08/14/2019	Extracted From: Hemp	
Collection Date: 08/14/2019	Method: SOP-3	
Report Date: 08/23/2019		

Potency (HPLC)											
Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	LOQ (%)	
CBC	0.701	0.070	0.001	CBCA	ND	0.001	0.001	CBD	23.510	2.351	0.001
CBDA	ND	0.001	0.001	CBDA	0.352	0.035	0.001	CBDVA	ND	0.001	0.001
CBG	0.400	0.040	0.001	CBGA	ND	0.001	0.001	CBL	ND	0.001	0.001
CBN	ND	0.001	0.001	CBNA	ND	0.001	0.001	Delta-8-THC	ND	0.001	0.001
Delta-9-THC	0.862	0.086	0.001	THCA-A	ND	0.001	0.001	THCV	ND	0.001	0.001
THCVA	ND	0.001	0.001	Total CBD	23.510	2.351	0.001	Total THC	0.862	0.086	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	Acephate	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
Bifenazate	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	Ethionphos	0.200	<LOQ	0.100	Etofenprox	0.400	<LOQ	0.100
Etoxazole	0.200	<LOQ	0.100	Fenoxycarb	0.200	<LOQ	0.100	Fipronil	0.400	<LOQ	0.100
Fonicamid	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	Metalaxyl	0.200	<LOQ	0.100	Methiocarb	0.200	<LOQ	0.100
Methomyl	0.400	<LOQ	0.100	MGK-264	0.200	<LOQ	0.100	Myclobutanil	0.200	<LOQ	0.100
Naled	0.500	<LOQ	0.100	Oxamyl	1.000	<LOQ	0.100	Paclobutrazol	0.400	<LOQ	0.100
Parathion-methyl	0.200	<LOQ	0.250	Permethrin	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	Pyrethrins	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
Spirotetramat	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

Thomas Farrell, MD
Lab Director

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CERTIFICATE OF ANALYSIS

Customer: Naternal

Order #: 703730	Specimen Type: Extract	Initial Gross Weight: 38549.00(mg)
Batch #: FS60004	Description: 600mg Tincture in MCT	Specimen Weight: 95.03(mg)
Order Date: 08/14/2019	Extracted From: Hemp	
Collection Date: 08/14/2019	Method: SOP-3	
Report Date: 08/23/2019		

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	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	15.000	Aflatoxin B2		<LOQ	15.000	Aflatoxin G1		<LOQ	15.000
Aflatoxin G2		<LOQ	15.000	Aflatoxin Total	20.000	<LOQ	15.000	Ochratoxin A	20.000	<LOQ	15.000

Terpenes (GC/GCMS)

Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)
3-Carene	ND	0.001		Alpha-Bisabolol	ND	0.001		Alpha-Pinene	ND	0.002	
Alpha-Terpinene	ND	0.001		Alpha-Terpineol	ND	0.001		Aromadendrene	ND	0.001	
Beta-Myrcene	ND	0.001		Beta-Pinene	ND	0.001		Camphene	ND	0.001	
Fenchol	ND	0.002		Gamma-Terpinene	ND	0.001		Gamma-Terpineol	ND	0.002	
Geraniol	ND	0.001		Guaiol	ND	0.001		Humulene	ND	0.001	
Isopulegol	ND	0.001		Linalool	ND	0.001		Nerolidol-1	ND	0.001	
Nerolidol-2	ND	0.001		Ocimene-1	ND	0.001		Ocimene-2	ND	0.001	
P-Cymene	ND	0.001		R-Limonene	ND	0.000		Terpinolene	ND	0.001	
Trans-Caryophyllene	ND	0.001									

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Lab Director

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Customer: Maternal

Order #: 703730 Batch #: FS60004 Order Date: 08/14/2019 Collection Date: 08/14/2019 Report Date: 08/23/2019	Specimen Type: Extract Description: 600mg Tincture in MCT Extracted From: Hemp Method: SOP-3	Initial Gross Weight: 38549.00(mg) Specimen Weight: 95.03(mg)
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Microbiology (qPCR) (Passed) (qPCR)

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

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Lab Director

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