Sample ID: 1910CML0122.0444

Strain: 500mg Natural Matrix: Other Type: Other

Sample Size: 1 units; Batch: 30 g

Produced: Collected: 09/26/2019 Received: 09/27/2019 Completed: 10/02/2019

Batch#: B19G09

Client

**Natural Hemp Company** 

Lic.# 69605 Centinela Culver City, TN 90230



Summary		
Test	Date Tested	Result
Batch		Pass
Cannabinoids	10/02/2019	Complete
Water Activity	10/02/2019	0.52 aw - Pass
Terpenes	10/02/2019	Complete
Residual Solvents	10/02/2019	Pass
Microbials	10/02/2019	Pass
Mycotoxins	10/02/2019	Pass
Pesticides	10/02/2019	Pass
Heavy Metals	10/02/2019	Pass
Foreign Matter	10/02/2019	Pass

Cannabinoids Complete

0.	<b>01</b>	47	2 r	ng	/mL
v.	$\mathbf{v}$	. 7	<b>—</b> I	115/	

### 18.16981 mg/mL

### 18.20984 mg/mL

#### **Total THC**

#### **Total CBD**

### **Total Cannabinoids**

Analyte	LOD	LOQ	Result	Result	
	mg/mL	mg/mL	mg/mL	mg/g	
THCa	0.00009	0.00047	ND	ND	
Δ9-ΤΗС	0.00009	0.00047	0.01472	0.01555	
Δ8-ΤΗС	0.00009	0.00047	0.01509	0.01595	l
THCV	0.00009	0.00047	ND	ND	
CBDa	0.00009	0.00047	<loq< td=""><td><loq< td=""><td></td></loq<></td></loq<>	<loq< td=""><td></td></loq<>	
CBD	0.00009	0.00047	18.16981	19.19474	
CBN	0.00009	0.00047	0.00100	0.00105	
CBGa	0.00009	0.00047	ND	ND	
CBG	0.00009	0.00047	0.00686	0.00725	
CBC	0.00009	0.00047	0.00236	0.00250	
Total THC			0.01472	0.01555	
Total CBD			18.16981	19.19474	
Total			18.20984	19.23703	

Total THC = THCa \* 0.877 +  $\Delta$ 9-THC; Total CBD = CBDa \* 0.877 + CBD; LOQ = Limit of Quantitation; The reported result is based on a sample weight with the applicable moisture content for that sample; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory. Analytical Method: HPLC; SOP: HPLC-001-200



Jennifer Knaack - Laboratory Director





Sample ID: 1910CML0122.0444

Strain: 500mg Natural Matrix: Other Type: Other

Sample Size: 1 units; Batch: 30 g

Produced:

Collected: 09/26/2019 Received: 09/27/2019 Completed: 10/02/2019 Batch#: B19G09 Client

Natural Hemp Company Lic. #

69605 Centinela Culver City, TN 90230

Pesticides Pass

Analyte	LOD	LOQ	Limit	Mass	Status	Analyte	LOD	LOQ	Limit	Mass	Status
	µg/g	µg/g	µg/g	μg/g			µg/g	µg/g	µg/g	μg/g	
Abamectin	0.025	0.1	0.1	ND	Pass	Fludioxonil	0.0125	0.1	0.1	ND	Pass
Acephate	0.0125	0.1	0.1	ND	Pass	Hexythiazox	0.0125	0.1	0.1	ND	Pass
Acequinocyl	0.05	0.1	0.1	ND	Pass	Imazalil	0.0125	0.1	0.0125	ND	Pass
Acetamiprid	0.0125	0.1	0.1	ND	Pass	Imidacloprid	0.0125	0.1	5	ND	Pass
Aldicarb	0.0125	0.1	0.0125	ND	Pass	Kresoxim Methyl	0.0125	0.1	0.1	ND	Pass
Azoxystrobin	0.0125	0.1	0.1	ND	Pass	Malathion	0.0125	0.1	0.5	ND	Pass
Bifenazate	0.0125	0.1	0.1	ND	Pass	Metalaxyl	0.0125	0.1	2	ND	Pass
Bifenthrin	0.0125	0.1	3	ND	Pass	Methiocarb	0.0125	0.1	0.0125	ND	Pass
Boscalid	0.0125	0.1	0.1	ND	Pass	Methomyl	0.0125	0.1	1	ND	Pass
Captan	0.0175	0.7	0.7	ND	Pass	Methyl Parathion	0.025	0.1	0.025	ND	Pass
Carbaryl	0.05	0.1	0.5	ND	Pass	Mevinphos	0.0125	0.1	0.0125	ND	Pass
Carbofuran	0.0125	0.1	0.0125	ND	Pass	Myclobutanil	0.0125	0.1	0.1	ND	Pass
Chlorantraniliprole	0.0125	0.1	10	ND	Pass	Naled	0.0125	0.1	0.1	ND	Pass
Chlordane	0.025	0.1	0.025	ND	Pass	Oxamyl	0.0125	0.1	0.5	ND	Pass
Chlorfenapyr	0.01	0.1	0.01	ND	Pass	Paclobutrazol	0.0125	0.1	0.0125	ND	Pass
Chlorpyrifos	0.0125	0.1	0.0125	ND	Pass	Pentachloronitrobenzene	0.01	0.1	0.1	ND	Pass
Clofentezine	0.0125	0.1	0.1	ND	Pass	Permethrin	0.0125	0.1	0.5	ND	Pass
Coumaphos	0.0125	0.1	0.0125	ND	Pass	Phosmet	0.0125	0.1	0.1	ND	Pass
Cyfluthrin	0.075	0.3	2	ND	Pass	Piperonyl Butoxide	0.0125	0.1	3	ND	Pass
Cypermethrin	0.075	0.3	1	ND	Pass	Prallethrin	0.05	0.1	0.1	ND	Pass
Daminozide	0.05	0.1	0.05	ND	Pass	Propiconazole	0.0125	0.1	0.1	ND	Pass
DDVP	0.025	0.1	0.025	ND	Pass	Propoxur	0.0125	0.1	0.0125	ND	Pass
Diazinon	0.0125	0.1	0.1	ND	Pass	Pyrethrins	0.075	0.1	0.5	ND	Pass
Dimethoate	0.0125	0.1	0.0125	ND	Pass	Pyridaben	0.0125	0.1	0.1	ND	Pass
Dimethomorph	0.0125	0.1	2	ND	Pass	Spinetoram	0.0125	0.1	0.1	ND	Pass
Ethoprophos	0.0125	0.1	0.0125	ND	Pass	Spinosad	0.0125	0.1	0.1	ND	Pass
Etofenprox	0.0125	0.1	0.0125	ND	Pass	Spiromesifen	0.025	0.1	0.1	ND	Pass
Etoxazole	0.0125	0.1	0.1	ND	Pass	Spirotetramat	0.0125	0.1	0.1	ND	Pass
Fenhexamid	0.0125	0.1	0.1	ND	Pass	Spiroxamine	0.0125	0.1	0.0125	ND	Pass
Fenoxycarb	0.0125	0.1	0.0125	ND	Pass	Tebuconazole	0.0125	0.1	0.1	ND	Pass
Fenpyroximate	0.0125	0.1	0.1	ND	Pass	Thiacloprid	0.0125	0.1	0.0125	ND	Pass
Fipronil	0.0125	0.1	0.0125	ND	Pass	Thiamethoxam	0.0125	0.1	5	ND	Pass
Flonicamid	0.0125	0.1	0.1	ND	Pass	Trifloxystrobin	0.0125	0.1	0.1	ND	Pass

Date Tested: 10/02/2019

LOQ = Limit of Quantitation; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory. Analytical Method: LCMS/MS & GCMS; SOP: LCMSPESF-001.200, LCMSPESO-001-200 & GCPES-001.200



Jennifer Knaack - Laboratory Director 10/02/2019



Sample ID: 1910CML0122.0444

Strain: 500mg Natural Matrix: Other Type: Other

Sample Size: 1 units; Batch: 30 g

Produced:

Collected: 09/26/2019 Received: 09/27/2019 Completed: 10/02/2019 Batch#: B19G09 Client

Natural Hemp Company Lic. # 69605 Centinela

69605 Centinela Culver City, TN 90230

Residual Solvents	Pass

Analyte	LOD	LOQ	Limit	Mass	Statu
	μg/g	µg/g	µg/g	μg/g	
1,2-Dichloro-Ethane	0.36	0.96	1	ND	Pas
Acetone	0.24	0.96	5000	1.316	Pas
Acetonitrile	0.06	0.96	410	<loq< td=""><td>Pas</td></loq<>	Pas
Benzene	0.36	0.96	1	ND	Pas
Butane	0.375	6	5000	ND	Pas
Chloroform	0.36	0.96	1	ND	Pas
Ethanol	0.12	0.96	5000	<loq< td=""><td>Pas</td></loq<>	Pas
Ethyl-Acetate	0.36	0.96	5000	ND	Pas
Ethyl-Ether	0.12	0.96	5000	ND	Pas
Ethylene Oxide	0.36	0.72	1	ND	Pas
Heptane	0.36	0.96	5000	ND	Pas
sopropanol	0.12	0.96	5000	18.947	Pas
Methanol	0.24	0.96	3000	<loq< td=""><td>Pas</td></loq<>	Pas
Methylene-Chloride	0.36	0.96	1	NĎ	Pas
n-Hexane	0.12	0.96	290	ND	Pas
Pentane	0.48	0.96	5000	ND	Pas
Propane	1.2	2.4	5000	ND	Pas
Toluene	0.36	0.96	890	ND	Pas
Trichloroethene	0.36	0.96	1	ND	Pas
			2170		Pas
Xylenes	0.36	1.92		ND ND	E

Date Tested: 10/02/2019 LOQ = Limit of Quantitation; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory. Analytical Method: GCMS; SOP: GCRS-001.200



Jennifer Knaack - Laboratory Director 10/02/2019



Sample ID: 1910CML0122.0444

Strain: 500mg Natural Matrix: Other Type: Other

Sample Size: 1 units; Batch: 30 g

Produced: Collected: 09/26/2019 Received: 09/27/2019

Completed: 10/02/2019 Batch#: B19G09

Client

**Natural Hemp Company** 

Lic.#

69605 Centinela Culver City, TN 90230

Microbials		Pass
Analyte	Result	Status
Aspergillus flavus	Not Detected in 1g	Pass
Aspergillus fumigatus	Not Detected in 1g	Pass
Aspergillus niger	Not Detected in 1g	Pass
Aspergillus terreus	Not Detected in 1g	Pass
Shiga toxin-producing E. Coli	Not Detected in 1g	Pass
Salmonella	Not Detected in 1g	Pass

Date Tested: 10/02/2019
TNTC = Too Numerous to Count; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory. Analytical Method: Pathogen DXV; SOP: PCR-001-00

**Pass** Mycotoxins

Analyte	LOD	LOQ	Limit	Units	Status
	μg/kg	μg/kg	μg/kg	μg/kg	
B1	0.0025	0.005		ND	Tested
B2	0.0025	0.005		ND	Tested
G1	0.0025	0.005		ND	Tested
G2	0.0025	0.005		ND	Tested
Total Aflatoxins	0.0025	0.005	20	ND	Pass
Ochratoxin A	0.0025	0.005	20	ND	Pass

Date Tested: 10/02/2019

LOQ = Limit of Quantitation; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory. Analytical Method: LCMS/MS; SOP: LCMS-MTX-001.200

**Heavy Metals Pass** 

Analyte	LOD	LOQ	Limit	Units	Status
	µg/g	μg/g	µg/g	μg/g	
Arsenic	0.01	0.05	0.2	ND	Pass
Cadmium	0.01	0.05	0.2	ND	Pass
Lead	0.01	0.05	0.5	ND	Pass
Mercury	0.01	0.05	0.1	ND	Pass

Date Tested: 10/02/2019

LOQ = Limit of Quantitation; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory. Analytical Method: ICPMS; SOP: ICP-001.200



Jennifer Knaack - Laboratory Director 10/02/2019



Sample ID: 1910CML0122.0444

Strain: 500mg Natural Matrix: Other Type: Other

Sample Size: 1 units; Batch: 30 g

Produced:

Collected: 09/26/2019 Received: 09/27/2019 Completed: 10/02/2019 Batch#: B19G09 Client

Natural Hemp Company

Lic. # 69605 Centinela Culver City, TN 90230

#### **Terpenes**

Analyte	LOD	LOQ	Mass	Mass	Analyte	LOD	LOQ	Mass	Mass
	mg/g	mg/g	mg/g	%		mg/g	mg/g	mg/g	%
3-Carene	0.0100	0.08	ND	ND	y-Terpinene	0.0100	0.08	ND	ND
α-Bisabolol	0.0200	0.08	ND	ND	y-Terpineol	0.0800	0.08	ND	ND
α-Cedrene	0.0100	0.08	ND	ND	Geraniol	0.0400	0.08	ND	ND
α-Humulene	0.0100	0.08	ND	ND	Geranyl Acetate	0.0200	0.08	ND	ND
α-Phellandrene	0.0100	0.08	ND	ND	Guaiol	0.0200	0.08	ND	ND
α-Pinene	0.0100	0.08	ND	ND	Hexahydro Thymol	0.0200	0.08	ND	ND
α-Terpinene	0.0100	0.08	ND	ND	Isoborneol	0.0100	0.08	ND	ND
β-Caryophyllene	0.0200	0.08	ND	ND	Isopulegol	0.0400	0.08	ND	ND
β-Myrcene	0.0100	0.08	ND	ND	Linalool	0.0200	0.08	ND	ND
β-Pinene	0.0100	0.08	ND	ND	Nerol	0.0400	0.08	ND	ND
Borneol	0.0100	0.08	ND	ND	Ocimene		0.08	ND	ND
Camphene	0.0100	0.08	ND	ND	Pulegone	0.0200	0.08	ND	ND
Camphor	0.0100	0.08	ND	ND	R(+)-Limonene	0.0100	0.08	ND	ND
Cedrol	0.0200	0.08	ND	ND	Sabinene	0.0100	0.08	ND	ND
cis-Nerolidol	0.0200	0.08	ND	ND	Terpinolene	0.0100	0.08	ND	ND
Endo-Fenchyl Alcohol	0.0100	0.08	ND	ND	trans-Nerolidol	0.0400	0.08	ND	ND
Eucalyptol	0.0100	0.08	ND	ND	Valencene	0.0200	0.08	ND	ND
					Total			0.00	0

### **Primary Aromas**



LOQ = Limit of Quantitation; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory. Analytical Method: GCMS; SOP: GCTERP-001 200



Jennifer Knaack - Laboratory Director

Jennifer Knaack - Laboratory Director 10/02/2019

