Sample ID: 1910CML0122.0442

Strain: 500mg Peppermint 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#: B19G10

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	0.49 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

Complete Cannabinoids

0.01237 mg/mL

16.46186 mg/mL

16.49172 mg/mL

Total THC

Total CBD

Total Cannabinoids

Analyte	LOD	LOQ	Result	Result	
	mg/mL	mg/mL	mg/mL	mg/g	
THCa	0.00010	0.00048	ND	ND	
Δ9-ΤΗС	0.00010	0.00048	0.01237	0.01290	
Δ8-THC	0.00010	0.00048	0.01057	0.01102	
THCV	0.00010	0.00048	ND	ND	
CBDa	0.00010	0.00048	ND	ND	
CBD	0.00010	0.00048	16.46186	17.15849	
CBN	0.00010	0.00048	0.00070	0.00073	
CBGa	0.00010	0.00048	ND	ND	
CBG	0.00010	0.00048	0.00622	0.00648	
CBC	0.00010	0.00048	ND	ND	
Total THC			0.01237	0.01290	
Total CBD			16.46186	17.15849	
Total			16.49172	17.18962	

Total THC = THCa * 0.877 + Δ 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: 1910CML0122.0442

Strain: 500mg Peppermint

Matrix: Other Type: Other

Sample Size: 1 units; Batch: 30 g

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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	lmazalil	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: 1910CML0122.0442

Strain: 500mg Peppermint

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#: B19G10

Client

Natural Hemp Company

Lic.#

69605 Centinela Culver City, TN 90230

Analyte	LOD	LOQ	Limit	Mass	Status
	μg/g	µg/g	µg/g	μg/g	
1,2-Dichloro-Ethane	0.36	0.96	1	ND	Pass
Acetone	0.24	0.96	5000	2.326	Pass
Acetonitrile	0.06	0.96	410	<loq< td=""><td>Pass</td></loq<>	Pass
Benzene	0.36	0.96	1	ND	Pass
Butane	0.375	6	5000	ND	Pass
Chloroform	0.36	0.96	1	ND	Pass
Ethanol	0.12	0.96	5000	<loq< td=""><td>Pass</td></loq<>	Pass
Ethyl-Acetate	0.36	0.96	5000	ND	Pass
Ethyl-Ether	0.12	0.96	5000	ND	Pass
Ethylene Oxide	0.36	0.72	1	ND	Pass
Heptane	0.36	0.96	5000	ND	Pass
Isopropanol	0.12	0.96	5000	12.509	Pass
Methanol	0.24	0.96	3000	<loq< td=""><td>Pass</td></loq<>	Pass
Methylene-Chloride	0.36	0.96	1	ND	Pass
n-Hexane	0.12	0.96	290	ND	Pass
Pentane	0.48	0.96	5000	ND	Pass
Propane	1.2	2.4	5000	ND	Pass
Toluene	0.36	0.96	890	ND	Pass
Trichloroethene	0.36	0.96	1	ND	Pass
Xylenes	0.12	1.92	2170	ND	Pass
7,410100	0.12	1.72	2170	IID	1 45.

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: 1910CML0122.0442

Strain: 500mg Peppermint 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#: B19G10

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: 1910CML0122.0442

Strain: 500mg Peppermint 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#: B19G10 Client

Natural Hemp Company

Lic. # 69605 Centinela Culver City, TN 90230

Terpenes

Analyte	LOD	LOO	Mass	Mass	
	mg/g	mg/g	mg/g	%	
Hexahydro Thymol	0.0200	0.08	5.87	0.587	
Eucalyptol	0.0100	0.08	0.59	0.059	
y-Terpinene	0.0100	0.08	0.59	0.059	
R(+)-Limonene	0.0100	0.08	0.15	0.015	I
Ocimene		0.08	0.11	0.011	
β-Caryophyllene	0.0200	0.08	0.09	0.009	
β-Pinene	0.0100	0.08	0.08	0.008	
3-Carene	0.0100	0.08	ND	ND	
α-Bisabolol	0.0200	0.08	ND	ND	
α-Cedrene	0.0100	0.08	ND	ND	
α-Humulene	0.0100	0.08	ND	ND	
α-Phellandrene	0.0100	0.08	ND	ND	
α-Pinene	0.0100	0.08	<loq< th=""><th><loq< th=""><th></th></loq<></th></loq<>	<loq< th=""><th></th></loq<>	
α-Terpinene	0.0100	0.08	ND	ND	
β-Myrcene	0.0100	0.08	ND	ND	
Borneol	0.0100	0.08	ND	ND	
Camphene	0.0100	0.08	ND	ND	

Analyte	LOD	LOQ	Mass	Mass	
	mg/g	mg/g	mg/g	%	
Camphor	0.0100	0.08	ND	ND	
Cedrol	0.0200	0.08	ND	ND	
cis-Nerolidol	0.0200	0.08	ND	ND	
Endo-Fenchyl Alcohol	0.0100	0.08	ND	ND	
y-Terpineol	0.0800	0.08	ND	ND	
Geraniol	0.0400	0.08	ND	ND	
Geranyl Acetate	0.0200	0.08	ND	ND	
Guaiol	0.0200	0.08	ND	ND	
Isoborneol	0.0100	0.08	ND	ND	
Isopulegol	0.0400	0.08	ND	ND	
Linalool	0.0200	0.08	<loq< th=""><th><loq< th=""><th></th></loq<></th></loq<>	<loq< th=""><th></th></loq<>	
Nerol	0.0400	0.08	ND	ND	
Pulegone	0.0200	0.08	<loq< th=""><th><loq< th=""><th></th></loq<></th></loq<>	<loq< th=""><th></th></loq<>	
Sabinene	0.0100	0.08	<loq< th=""><th><loq< th=""><th></th></loq<></th></loq<>	<loq< th=""><th></th></loq<>	
Terpinolene	0.0100	0.08	<loq< th=""><th><loq< th=""><th></th></loq<></th></loq<>	<loq< th=""><th></th></loq<>	
trans-Nerolidol	0.0400	0.08	ND	ND	
Valencene	0.0200	0.08	ND	ND	
Total			7.49	0.749	

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





