

DHC-018-1000 (NBN02)

Sample ID: 1904CSALA2868.9942

Strain: DHC-018-1000 (NBN02)

Matrix: Other

Type: Other

Sample Size: 1 units

Batch Size:

Produced: N/A

Collected: 04/17/2019

Received: 04/17/2019

Completed: 04/23/2019

Batch#: 613419

Client

Dutch Hemp LLC

Lic. #

Ocean, CA 07712



Summary

Pass

43.14 mg/ml

Total Cannabinoids

Pass

Pesticides

Pass

Residual Solvents

Pass

Microbials

Pass

Mycotoxins

Pass

Heavy Metals

Cannabinoids

Testing method: HPLC-SOP 101

Pass

Analyte	LOD	LOQ	Mass	Mass
	mg/ml	mg/ml	mg/ml	%
CBD	0.00036	0.00097	35.20	3.65
CBC	0.00014	0.00097	4.71	0.49
CBDa	0.0002	0.00097	1.17	0.12
Δ^9 -THC	0.00041	0.00097	1.10	0.11
CBDV	0.0001	0.00097	0.59	0.06
CBG	0.00036	0.00097	0.37	0.04
CBGa	0.00019	0.00097	ND	ND
CBN	0.00016	0.00097	ND	ND
THCa	0.00022	0.00097	ND	ND
THCV	0.00038	0.00097	ND	ND
Δ^8 -THC	0.00041	0.00097	ND	ND
Total			43.14	4.47

1.10 mg/ml

Total THC

36.23 mg/ml

Total CBD

Density = 0.9658 g/ml;

Date Tested: 04/22/2019

Total THC = THCa * 0.877 + d9-THC

Total CBD = CBDa * 0.877 + CBD

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Terpenes

Testing method: HS-GC-FID - SOP 201

Complete

Analyte	LOD	LOQ	Mass	Mass
	%	%	%	mg/g
β -Caryophyllene	0.00017	0.0013	0.03	0.27
β -Myrcene	0.00012	0.0013	0.03	0.27
α -Humulene	0.00057	0.0013	0.01	0.09
trans-Nerolidol	0.00058	0.0013	0.01	0.07
Guaiol	0.00018	0.0013	0.00	0.05
Camphene	0.00072	0.0013	ND	ND
Caryophyllene Oxide	0.00017	0.0013	ND	ND
cis-Nerolidol	0.00009	0.0013	ND	ND
Eucalyptol	0.00017	0.0013	ND	ND
Geraniol	0.00013	0.0013	ND	ND
Isopulegol	0.00011	0.0013	ND	ND
Linalool	0.00015	0.0013	ND	ND
Ocimene	0.00013	0.0013	ND	ND
p-Cymene	0.0001	0.0013	ND	ND
Terpinolene	0.00016	0.0013	ND	ND
α -Bisabolol	0.00015	0.0013	ND	ND
α -Pinene	0.00015	0.0013	ND	ND
α -Terpinene	0.00012	0.0013	ND	ND
β -Pinene	0.00034	0.0013	ND	ND
γ -Terpinene	0.00012	0.0013	ND	ND
δ -3-Carene	0.0004	0.0013	ND	ND
δ -Limonene	0.00016	0.0013	ND	ND
Total			0.07	0.74

Date Tested: 04/22/2019

NT

Moisture

Moisture Analyzer SOP-103

NT

Water Activity

Water Activity Meter SOP-102

Pass

Foreign Matter

Visual Inspection SOP-001

Date Tested: 04/18/2019


ISO / IEC 17025:2017 ACCREDITED LABORATORY
Accreditation No. 73653



Mallory Speakman
Laboratory Director - LA
04/23/2019



Anya Engen
Quality Manager
04/23/2019

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Pesticides

Testing method: LCMS & GCMS-SOP 301

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	0.018	0.059	0.3	ND	Pass	Fludioxonil	0.007	0.024	30.0	ND	Pass
Acephate	0.009	0.029	5.0	ND	Pass	Hexythiazox	0.007	0.024	2.0	ND	Pass
Acequinocyl	0.005	0.018	4.0	ND	Pass	Imazalil *	0.004	0.012	0.1	ND	Pass
Acetamiprid	0.004	0.013	5.0	ND	Pass	Imidacloprid	0.039	0.129	3.0	ND	Pass
Aldicarb *	0.004	0.013	0.1	ND	Pass	Kresoxim Methyl	0.005	0.017	1.0	ND	Pass
Azoxystrobin	0.006	0.019	40.0	ND	Pass	Malathion	0.01	0.032	5.0	ND	Pass
Bifenazate	0.004	0.014	5.0	ND	Pass	Metalaxyl	0.003	0.01	15.0	ND	Pass
Bifenthrin	0.008	0.027	0.5	ND	Pass	Methiocarb *	0.006	0.02	0.1	ND	Pass
Boscalid	0.006	0.019	10.0	ND	Pass	Methomyl	0.009	0.03	0.1	ND	Pass
Captan	0.0789	0.2631	5.0	ND	Pass	Methyl Parathion *	0.007	0.0233	0.1	ND	Pass
Carbaryl	0.005	0.015	0.5	ND	Pass	Mevinphos *	0.003	0.011	0.1	ND	Pass
Carbofuran *	0.005	0.018	0.1	ND	Pass	Myclobutanil	0.017	0.058	9.0	ND	Pass
Chlorantraniliprole	0.007	0.024	40.0	ND	Pass	Naled	0.007	0.024	0.5	ND	Pass
Chlordane *	0.0291	0.0969	0.1	ND	Pass	Oxamyl	0.003	0.009	0.2	ND	Pass
Chlorfenapyr *	0.01	0.033	0.1	ND	Pass	Paclobutrazol *	0.013	0.044	0.1	ND	Pass
Chlorpyrifos *	0.005	0.017	0.1	ND	Pass	Pentachloronitrobenzene	0.0046	0.0152	0.2	ND	Pass
Clofentezine	0.006	0.019	0.5	ND	Pass	Permethrin	0.011	0.036	20.0	ND	Pass
Coumaphos *	0.009	0.028	0.1	ND	Pass	Phosmet	0.007	0.025	0.2	ND	Pass
Cyfluthrin	0.008	0.026	1.0	ND	Pass	Piperonyl Butoxide	0.005	0.018	8.0	ND	Pass
Cypermethrin	0.013	0.044	1.0	ND	Pass	Prallethrin	0.007	0.024	0.4	ND	Pass
Daminozide *	0.021	0.07	0.1	ND	Pass	Propiconazole	0.008	0.026	20.0	ND	Pass
DDVP *	0.004	0.012	0.1	ND	Pass	Propoxur *	0.004	0.013	0.1	ND	Pass
Diazinon	0.005	0.017	0.2	ND	Pass	Pyrethrins	0.003	0.01	1.0	ND	Pass
Dimethoate *	0.003	0.011	0.1	ND	Pass	Pyridaben	0.008	0.027	3.0	ND	Pass
Dimethomorph	0.007	0.023	20.0	ND	Pass	Spinetoram	0.007	0.022	3.0	ND	Pass
Ethoprophos *	0.004	0.013	0.1	ND	Pass	Spinosad	0.005	0.016	3.0	ND	Pass
Etofenprox *	0.005	0.017	0.1	ND	Pass	Spiromesifen	0.007	0.023	12.0	ND	Pass
Etoxazole	0.006	0.018	1.5	ND	Pass	Spirotetramat	0.009	0.03	13.0	ND	Pass
Fenhexamid	0.009	0.03	10.0	ND	Pass	Spiroxamine *	0.006	0.019	0.1	ND	Pass
Fenoxycarb *	0.007	0.022	0.1	ND	Pass	Tebuconazole	0.013	0.042	2.0	ND	Pass
Fenpyroximate	0.009	0.03	2.0	ND	Pass	Thiacloprid *	0.007	0.023	0.1	ND	Pass
Fipronil *	0.017	0.056	0.1	ND	Pass	Thiamethoxam	0.004	0.013	4.5	ND	Pass
Flonicamid	0.0244	0.0814	2.0	ND	Pass	Trifloxystrobin	0.004	0.014	30.0	ND	Pass

Date Tested: 04/22/2019

* Denotes Category I pesticides, which fail when detected; LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.


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Microbials

Testing method: PCR-SOP 401

Pass

Analyte	Result	Status
Salmonella	Not Detected	Pass
Shiga toxin-producing E. Coli	Not Detected	Pass

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Mycotoxins

Testing method: LCMS-SOP 301

Pass

Analyte	LOD	LOQ	Limit	Units	Status
	µg/kg	µg/kg	µg/kg	µg/kg	
Aflatoxin B1	0.001	0.005		ND	Tested
Aflatoxin B2	0.007	0.022		ND	Tested
Aflatoxin G1	0.007	0.022		ND	Tested
Aflatoxin G2	0.006	0.021		ND	Tested
Total Aflatoxins			20.0	ND	Pass
Ochratoxin A	0.013	0.045	20.0	ND	Pass

Date Tested: 04/22/2019

LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.

Heavy Metals

Testing method: ICPMS-SOP 501

Pass

Analyte	LOD	LOQ	Limit	Mass	Status
	µg/g	µg/g	µg/g	µg/g	
Arsenic	0.001	0.01	1.5	<LOQ	Pass
Cadmium	0.001	0.01	0.5	ND	Pass
Lead	0.001	0.01	0.5	0.045	Pass
Mercury	0.001	0.01	3.0	ND	Pass

Date Tested: 04/19/2019

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Residual Solvents

Testing method: HSGCMS-SOP 202

Pass

Analyte	LOD	LOQ	Limit	Mass	Status
	µg/g	µg/g	µg/g	µg/g	
1,2-Dichloro-Ethane	0.024	0.24	1	ND	Pass
Acetone	0.112	1.12	5000	ND	Pass
Acetonitrile	0.0196	0.196	410	ND	Pass
Benzene	0.0096	0.096	1	ND	Pass
Butane	0.2	2.0	5000	ND	Pass
Chloroform	0.0288	0.288	1	ND	Pass
Ethanol	0.112	1.12	5000	217.52	Pass
Ethyl-Acetate	0.112	1.12	5000	ND	Pass
Ethylene Oxide	0.024	0.24	1	ND	Pass
Ethyl-Ether	0.112	1.12	5000	ND	Pass
Heptane	0.112	1.12	5000	ND	Pass
Isopropanol	0.112	1.12	5000	ND	Pass
Methanol	0.144	1.44	3000	ND	Pass
Methylene-Chloride	0.0288	0.288	1	ND	Pass
n-Hexane	0.1392	1.392	290	ND	Pass
Pentane	0.112	1.12	5000	ND	Pass
Propane	0.08	0.8	5000	ND	Pass
Toluene	0.4272	4.272	890	ND	Pass
Trichloroethene	0.0384	0.384	1	ND	Pass
Xylenes	1.0416	10.416	2170	ND	Pass

Date Tested: 04/20/2019

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