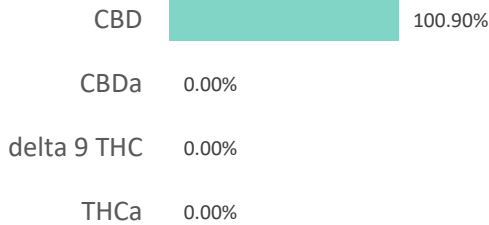
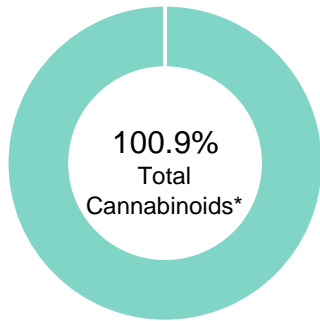


CBD Isolate

Batch ID:	JD-030	Test ID:	4967405.0010
Reported:	15-Apr-2019	Method:	TM14
Type:	Concentrate		
Test:	Potency		

CANNABINOID PROFILE


Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.41	0.00	0.0
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.20	0.00	0.0
Cannabidiolic acid (CBDA)	0.30	0.00	0.0
Cannabidiol (CBD)	0.17	100.90	1009.0
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.22	0.00	0.0
Cannabinolic Acid (CBNA)	0.56	0.00	0.0
Cannabinol (CBN)	0.25	0.00	0.0
Cannabigerolic acid (CBGA)	0.36	0.00	0.0
Cannabigerol (CBG)	0.20	0.00	0.0
Tetrahydrocannabivarinic Acid (THCVA)	0.35	0.00	0.0
Tetrahydrocannabivarin (THCV)	0.18	0.00	0.0
Cannabidivarinic Acid (CBDVA)	0.28	0.00	0.0
Cannabidivarin (CBDV)	0.15	0.00	0.0
Cannabichromenic Acid (CBCA)	0.30	0.00	0.0
Cannabichromene (CBC)	0.37	0.00	0.0
Total Cannabinoids		100.90	1009.00
Total Potential THC**		0.00	0.00
Total Potential CBD**		100.90	1009.00

NOTES:

N/A

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)

* Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

** Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step.

Total THC = THC + (THCa *(0.877)) and Total CBD = CBD + (CBDa *(0.877))

FINAL APPROVAL

Sam Smith
 15-Apr-2019
 2:02 PM


David Green
 15-Apr-2019
 4:12 PM

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC. ISO/IEC 17025:2005 Accredited A2LA Certificate Number 4329.02



Certificate #4329.02

CBD ISOLATE

Batch ID:	JD-030	Test ID:	6582258.007
Reported:	18-Apr-2019	Method:	Concentrate - Test Method: TM05
Type:	Concentrate		
Test:	Microbial Contaminants		

MICROBIAL CONTAMINANTS

Contaminant	Result (CFU/g)*
Total Aerobic Count**	None Detected
Total Coliforms**	None Detected
Total Yeast and Molds**	None Detected
<i>E. coli</i>	None Detected
<i>Salmonella</i>	None Detected

* CFU/g = Colony Forming Unit per Gram

** Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form.

Examples: $10^2 = 100$ CFU
 $10^3 = 1,000$ CFU
 $10^4 = 10,000$ CFU
 $10^5 = 100,000$ CFU

NOTES:


Free from visual mold, mildew, and foreign matter

TYM: None Detected

Total Aerobic: None Detected

Coliforms: None Detected

FINAL APPROVAL


Robert Belfon
18-Apr-2019
2:59 PM


David Green
18-Apr-2019
3:05 PM

PREPARED BY / DATE

APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Services, LLC, in the condition it was received. Botanacor Services, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Services, LLC.

CBD ISOLATE

Batch ID:	JD-030	Test ID:	9577406.023
Reported:	16-Apr-2019	Method:	TM04
Type:	Concentrate		
Test:	Residual Solvents		

RESIDUAL SOLVENTS

Solvent	Reportable Range (ppm)	Result (ppm)
Propane	100 - 2000	0
Butanes (Isobutane, n-Butane)	100 - 2000	0
Pentane	100 - 2000	0
Ethanol	100 - 2000	0
Acetone	100 - 2000	0
Isopropyl Alcohol	100 - 2000	0
Hexane	6 - 120	0
Benzene	0.2 - 4	0.0
Heptanes	100 - 2000	514
Toluene	18 - 360	0
Xylenes (m,p,o-Xylenes)	43 - 860	0

NOTES:

Free from visual mold, mildew, and foreign matter.

FINAL APPROVAL

Sam Smith
16-Apr-2019
2:47 PMDavid Green
16-Apr-2019
4:04 PM

PREPARED BY / DATE

APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC. ISO/IEC 17025:2005 Accredited A2LA Certificate Number 4329.02



Certificate #4329.02

CERTIFICATE OF ANALYSIS

Treehouse Biotech
 Attn: Casey Black
 #####
 Longmont, CO 80504

AR-19-EI-003470-01

Client Code: EI0000080
 Batch Code: EUUSXHK-00002996
 PO Number: 4.16.19

Report Date: 04/30/2019
 Entry Date: 04/18/2019

Eurofins Sample Code: 397-2019-04180050
 Client Sample Code: 030
 Analysis Date: 4/18/2019

Sample Description: Industrial hemp flower
 Condition Upon Receipt: Acceptable

Test	Result
FS001 - Heavy Metals (As, Cd, Hg, and Pb)	
Method Reference: AOAC 993.14 Mod.	
Arsenic (As)	<0.196 ppm
Carbofuran-3-hydroxy- <0.05 mg/kg	
Pyrethrum (total) <0.50 mg/kg	
Cadmium (Cd)	0.364 ppm
Lead (Pb)	0.143 ppm
Mercury (Hg)	<0.0244 ppm

QA0SA - Multi-Residue Analysis for hemp, small profile

Method Reference: AOAC 2007.01 Modified

Abamectin	<0.05 mg/kg
Aldicarb	<0.05 mg/kg
Aldicarb-sulfone	<0.05 mg/kg
Aldicarb-sulfoxide	<0.05 mg/kg
Azoxystrobin	<0.05 mg/kg
Bifenazate	<0.05 mg/kg
Bifenthrin	<0.05 mg/kg
Carbaryl	<0.05 mg/kg
Carbofuran	<0.05 mg/kg
Chlorantraniliprole	<0.05 mg/kg
Chlordane, cis-	<0.05 mg/kg
Chlordane, trans-	<0.05 mg/kg
Chlorfenapyr	<0.05 mg/kg
Chlorpyrifos (Dursban/Lorsban)	<0.05 mg/kg
Coumaphos	<0.05 mg/kg
Cyfluthrin	<0.05 mg/kg
Cypermethrin	<0.05 mg/kg
Cyproconazole	<0.05 mg/kg
Cyprodinil	<0.05 mg/kg
Dichlorvos	<0.05 mg/kg
Diclobutrazol	<0.05 mg/kg
Dipropetryn	<0.05 mg/kg
Disulfoton	<0.05 mg/kg
Endosulfan sulphate	<0.05 mg/kg
Endosulfan, alpha-	<0.05 mg/kg
Endosulfan, beta-	<0.05 mg/kg
Epoxiconazole	<0.05 mg/kg

CERTIFICATE OF ANALYSIS

AR-19-EI-003470-01

Treehouse Biotech
Attn: Casey Black

Longmont, CO 80504Client Code: EI0000080
Batch Code: EUUSXHK-00002996
PO Number: 4.16.19Report Date: 04/30/2019
Entry Date: 04/18/2019

Ethiofencarb	<0.05 mg/kg
Etofenprox	<0.05 mg/kg
Etoxazole	<0.05 mg/kg
Fenoxycarb	<0.05 mg/kg
Fenpropathrin	<0.05 mg/kg
Fenvalerate	<0.05 mg/kg
Fipronil	<0.05 mg/kg
Fipronil, desulfinyl-	<0.05 mg/kg
Fipronil-sulfone	<0.05 mg/kg
Imazalil	<0.05 mg/kg
Imidacloprid	<0.05 mg/kg
Malathion	<0.05 mg/kg
Methiocarb	<0.05 mg/kg
Methiocarb-sulfone	<0.05 mg/kg
Methiocarb-sulfoxide	<0.05 mg/kg
Methomyl	<0.05 mg/kg
Metolachlor	<0.05 mg/kg
Mevinphos	<0.05 mg/kg
Myclobutanil	<0.05 mg/kg
Naled	<0.05 mg/kg
Paclbutrazol	<0.05 mg/kg
Permethrin	<0.05 mg/kg
Propoxur	<0.05 mg/kg
Spinetoram J	<0.05 mg/kg
Spinetoram L	<0.05 mg/kg
Spinosad A	<0.05 mg/kg
Spinosad D	<0.05 mg/kg
Spirodiclofen	<0.05 mg/kg
Spiromesifen	<0.05 mg/kg
Spiromesifen enol	<0.05 mg/kg
Spirotetramat	<0.05 mg/kg
Spiroxamine	<0.05 mg/kg
Tebuconazole	<0.05 mg/kg
Thiabendazole	<0.05 mg/kg
Thiabendazole, 5-hydroxy-	<0.05 mg/kg
Thiacloprid	<0.05 mg/kg
Trifloxystrobin	<0.05 mg/kg

CERTIFICATE OF ANALYSISTreehouse Biotech
Attn: Casey Black

Longmont, CO 80504

AR-19-EI-003470-01

Client Code: EI0000080
Batch Code: EUUSXHK-00002996
PO Number: 4.16.19Report Date: 04/30/2019
Entry Date: 04/18/2019Respectfully Submitted,
Eurofins Scientific, Inc.

Jordan Matosky
Lab Technician II

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