

# CERTIFICATE OF ANALYSIS



1777 SUN PEAK DRIVE  
PARK CITY, UT 84098

Solaray Leaf Therapeutics CBD Hemp Oil, 60 Count

Product: 51781

Packaged Lot: 232106

Production Date: 21-June-2019

Pill Lot: 91814647

Pills Used: 450,825

Bottles Produced: 7,560

Solvent Used: None, Cold Pressed or Supercritical CO2 Extraction

	Analysis	Specification	Result	Method
Active	Cannabidiol	15 mg/pill	15.5 mg/pill	HPLC
	Tetrahydrocannabinol	Less than 0.3 %	0.11%	HPLC
	<i>*Testing done by Eurofins Food Chemistry Testing US, Inc., Boulder, Colorado</i>			
Heavy Metals	Arsenic	< 1.00 ppm	< 0.01 ppm	ICP-MS
	Cadmium	< 0.30 ppm	< 0.01 ppm	ICP-MS
	Lead	< 1.00 ppm	0.02 ppm	ICP-MS
	Mercury	< 0.10 ppm	< 0.01 ppm	ICP-MS
	<i>*Testing done by Nutri-Biome, Ogden, Utah</i>			
Microbiological	Total Plate Count	< 1,000,000 CFU/g	75,000	USP 61
	Mold	<5,000 CFU/g	<100	USP 61
	Yeast	<5,000 CFU/g	<100	USP 61
	Coliform	< 10 CFU/g	<10	AOAC 991.14
	E. coli	< 10 CFU/g	Negative	AOAC 991.14
	Enterobacteriaceae	< 10 CFU/g	Negative	AOAC 2003.01
	Staph	< 10 CFU/g	Negative	USP 61
	<i>*Testing done by Great Basin Laboratory, Ogden, Utah</i>			
Pesticides	Glyphosate	Meets USP 561	Meets USP 561	LC/MS/MS
	Hemp Screen	Meets USP 561	Meets USP 561	GC-MS or LC-MS
	<i>*Testing done by Eurofins Food Chemistry Testing US, Inc., Greenfield, Indiana</i>			

\*Please see the following pages for the Certificates of Analysis from the 3<sup>rd</sup> party laboratories.

Approved by:

Joel Tippets, VP - Quality

### Certificate of Analysis

-Sustainable Labs, Inc. (Subsidiary of Nutraceutical Corp.) -

1777 Sun Peak Dr  
Park City Utah 84098 United States

<b>Sample Name:</b>	<b>s202242.1 CBD 15 (BKCO-40)</b>	<b>Eurofins Sample:</b>	<b>8496346</b>
<b>Project ID</b>	SUSTAIN_LA-20190528-0074	<b>Receipt Date</b>	28-May-2019
<b>PO Number</b>	NV7031672	<b>Receipt Condition</b>	Ambient temperature
<b>Lot Number</b>	8041501	<b>Login Date</b>	28-May-2019
<b>Sample Serving Size</b>	1 Cap	<b>Date Started</b>	28-May-2019

Analysis	Specifications	Result
<b>Industrial Hemp Cannabinoid Profile</b>		
CBDVA		<0.0128 mg/Serving Size
CBDV		0.105 mg/Serving Size
CBDA		0.0892 mg/Serving Size
CBGA		<0.0128 mg/Serving Size
CBG		0.281 mg/Serving Size
CBD	14.25 - 20.25 mg/Serving Size	15.4 mg/Serving Size
THCV		<0.0128 mg/Serving Size
CBN		<0.0128 mg/Serving Size
Delta 9-THC		0.572 mg/Serving Size
Delta 8-THC		<0.0255 mg/Serving Size
THCA		<0.0128 mg/Serving Size
CBC		0.771 mg/Serving Size
Total Cannabinoids		17.2 mg/Serving Size
Total THC (THC + (THCA x 0.877))		0.572 mg/Serving Size
Total CBD (CBD + (CBDA x 0.877))		15.5 mg/Serving Size
<b>Calculated Sample Weight *</b>		
Entity Weight		0.6387 g
Entity Fill Weight		0.5110 g

Method References	Testing Location
<b>Calculated Sample Weight (PREP_BOU)</b>	<b>Food Integrity Innovation-Boulder</b>
<b>Industrial Hemp Cannabinoid Profile (IHCBD_S)</b>	<b>Food Integrity Innovation-Boulder</b>

Official Methods of Analysis, Method 2018.11, AOAC INTERNATIONAL, (Modified). Lukas Vaclavik, Frantisek Benes, Alex Krmela, Veronika Svobodova, Jana Hajsolva and Katerina Mastovska, "Quantification of Cannabinoids in Cannabis Dried Plant Materials, Concentrates, and Oils Liquid Chromatography-Diode Array Detection Technique with Optional Mass Spectrometric Detection," First Action Method, Journal of AOAC International, Future Issue

\* This analysis or component is not ISO accredited.

## Certificate of Analysis

-Sustainable Labs, Inc. (Subsidiary of Nutraceutical Corp.) -

1777 Sun Peak Dr  
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**Testing Location(s)****Released on Behalf of Eurofins by**

**Food Integrity Innovation-Boulder**

**Ian Laessig - Manager**

Eurofins Food Chemistry Testing US, Inc.  
2830 Wilderness Pl  
Boulder CO 80301  
800-675-8375



AT-1816

**These results apply only to the items tested. This certificate of analysis shall not be reproduced, except in its entirety, without the written approval of Eurofins.**



# ANALYTICAL REPORT

Nutri-Biome 1877 W. 2800 S., Ogden UT, 84401 801-564-3233

Nutraceutical Corporation  
550 West 2nd Street  
Ogden, UT 84404

Report Date: 5/29/2019  
Date Recieved: 5/24/2019  
Purchase Order: NV7031706  
Lab Number: 1158  
Project Manager: Patty Vine

## Analytical Results

Sample Number: 1158-01

Description: CBD 15mg (BKCO-40)

Lot Number: S202242.3

Test	Method	Result	Units
Arsenic	ICP-MS	<0.01	ppm
Cadmium	ICP-MS	<0.01	ppm
Lead	ICP-MS	0.02	ppm
Mercury	ICP-MS	<0.01	ppm

These results apply only to the submitted sample and not to the material from which it was taken. This report is confidential and is for the sole use of the addressee. This report shall not be reproduced, except in its entirety, without the written approval from Nutri-Biome.

Approved By: \_\_\_\_\_

Patty Vine

**GREAT BASIN LABORATORY**

**Lynn V. Moyes**  
4291 West 2350 North  
Ogden, UT 84404  
Ph: 801-540-3645



**DATE:** 28 May 2019

**PRODUCT:** CBD 15mg (BKCO-40)

**LOT NO:** s202242.4

**TESTS RUN**

**RESULTS (CFU/gm) METHODOLOGY**

Total Count	75,000	USP 61
Coliform Count	<10	AOAC991.14
<i>E. coli</i>	Negative	AOAC991.14
Yeast Count	<100	USP 61
Mold Count	<100	USP 61
<i>Staphylococcus aureus</i>	Negative	USP 61
<i>Enterobacteriaceae</i>	Negative	AOAC 2003.01

## Certificate of Analysis

### Sustainable Labs Inc

1777 Sun Peak Dr  
Park City Utah 84098 United States

<b>Sample Name:</b>	<b>CBD 15mg BKCO-40</b>	<b>Eurofins Sample:</b>	<b>8497392</b>
<b>Project ID</b>	SUSTAIN_LA-20190528-0075	<b>Receipt Date</b>	28-May-2019
<b>PO Number</b>	NV7031700	<b>Receipt Condition</b>	Ambient temperature
<b>Lot Number</b>	s202242.5	<b>Login Date</b>	28-May-2019
<b>Sample Serving Size</b>		<b>Date Started</b>	31-May-2019

#### Analysis

#### Result

#### Multi-Residue Analysis for hemp products - 500+ compounds

High-Fat Food Matrices

Matrix Type - To Determine Limit of Quantification (LOQ)

Abamectin	<0.05 mg/kg
Acephate	<0.05 mg/kg
Acetamiprid	<0.05 mg/kg
Acetochlor	<0.05 mg/kg
Acibenzolar-S-methyl	<0.05 mg/kg
Aclonifen	<0.05 mg/kg
Acrinathrin	<0.05 mg/kg
Alachlor	<0.05 mg/kg
Aldicarb	<0.05 mg/kg
Aldicarb sulfone (Aldoxycarb)	<0.05 mg/kg
Aldicarb sulfoxide	<0.05 mg/kg
Aldrin	<0.05 mg/kg
Allethrin	<0.05 mg/kg
Ametryn	<0.05 mg/kg
Amidosulfuron	<0.05 mg/kg
Aminocarb	<0.05 mg/kg
Amitraz metabolite DMF	<0.05 mg/kg
Amitraz metabolite DMPF	<0.05 mg/kg
Anilofos	<0.05 mg/kg
Atrazine	<0.05 mg/kg
Azaconazole	<0.05 mg/kg
Azamethiphos	<0.05 mg/kg
Azinphos-ethyl	<0.05 mg/kg
Azinphos-methyl	<0.05 mg/kg
Azoxystrobin	<0.05 mg/kg
Beflubutamid	<0.05 mg/kg
Benalaxyl	<0.05 mg/kg
Bendiocarb	<0.05 mg/kg
Benfluralin	<0.05 mg/kg
Benoxacor	<0.05 mg/kg
Benzoximate	<0.05 mg/kg
Bifenazate	<0.05 mg/kg
Bifenox	<0.05 mg/kg
Bifenthrin	<0.05 mg/kg

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<b>Project ID</b>	SUSTAIN_LA-20190528-0075	<b>Receipt Date</b>	28-May-2019
<b>PO Number</b>	NV7031700	<b>Receipt Condition</b>	Ambient temperature
<b>Lot Number</b>	s202242.5	<b>Login Date</b>	28-May-2019
<b>Sample Serving Size</b>		<b>Date Started</b>	31-May-2019

Analysis	Result
<b>Multi-Residue Analysis for hemp products - 500+ compounds</b>	
Bispyribac	<0.05 mg/kg
Bitertanol	<0.05 mg/kg
Bixafen	<0.05 mg/kg
Boscalid	<0.05 mg/kg
Bromacil	<0.05 mg/kg
Bromophos-ethyl	<0.05 mg/kg
Bromophos-methyl	<0.05 mg/kg
Bromopropylate	<0.05 mg/kg
Bromuconazole (2 diastereoisomers)	<0.05 mg/kg
Bupirimate	<0.05 mg/kg
Buprofezin	<0.05 mg/kg
Butachlor	<0.05 mg/kg
Butafenacil	<0.05 mg/kg
Butocarboxim	<0.05 mg/kg
Butocarboxim sulfoxide	<0.05 mg/kg
Butoxycarboxim	<0.05 mg/kg
Butylate	<0.05 mg/kg
Cadusafos	<0.05 mg/kg
Carbaryl	<0.05 mg/kg
Carbendazim	<0.05 mg/kg
Carbetamide	<0.05 mg/kg
Carbofuran	<0.05 mg/kg
Carbofuran-3-hydroxy-	<0.05 mg/kg
Carbophenothion	<0.05 mg/kg
Carboxin	<0.05 mg/kg
Carfentrazone-ethyl	<0.05 mg/kg
Chlorantraniliprole	<0.05 mg/kg
Chlorbromuron	<0.05 mg/kg
Chlordane, cis-	<0.05 mg/kg
Chlordane, trans-	<0.05 mg/kg
Chlordimeform	<0.05 mg/kg
Chlorfenapyr	<0.05 mg/kg
Chlorfenvinphos (E- and Z-isomers)	<0.05 mg/kg
Chloridazon (Pyrazon)	<0.05 mg/kg
Chlorimuron-ethyl (Classic)	<0.05 mg/kg

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<b>Project ID</b>	SUSTAIN_LA-20190528-0075	<b>Receipt Date</b>	28-May-2019
<b>PO Number</b>	NV7031700	<b>Receipt Condition</b>	Ambient temperature
<b>Lot Number</b>	s202242.5	<b>Login Date</b>	28-May-2019
<b>Sample Serving Size</b>		<b>Date Started</b>	31-May-2019

Analysis	Result
<b>Multi-Residue Analysis for hemp products - 500+ compounds</b>	
Chlorobenzilate	<0.05 mg/kg
Chlorotoluron (Chlortoluron)	<0.05 mg/kg
Chloroxuron	<0.05 mg/kg
Chlorpropham (CIPC)	<0.05 mg/kg
Chlorpyrifos	<0.05 mg/kg
Chlorpyrifos-methyl	<0.05 mg/kg
Chlorsulfuron	<0.05 mg/kg
Clethodim (E- and Z-isomers)	<0.05 mg/kg
Clodinafop-propargyl	<0.05 mg/kg
Clofentezine	<0.05 mg/kg
Clomazone	<0.05 mg/kg
Cloquintocet-mexyl	<0.05 mg/kg
Clothianidin	<0.05 mg/kg
Coumaphos	<0.05 mg/kg
Cyanazine	<0.05 mg/kg
Cyanofenphos	<0.05 mg/kg
Cyazofamid	<0.05 mg/kg
Cycloate	<0.05 mg/kg
Cycloxydim	<0.05 mg/kg
Cycluron	<0.05 mg/kg
Cyflufenamid	<0.05 mg/kg
Cyfluthrin	<0.05 mg/kg
Cymiazole	<0.05 mg/kg
Cymoxanil	<0.05 mg/kg
Cypermethrin	<0.05 mg/kg
Cyproconazole (2 diastereoisomers)	<0.05 mg/kg
Cyprodinil	<0.05 mg/kg
Cyromazine	<0.05 mg/kg
Dacthal (Chlorthal-dimethyl, DCPA)	<0.05 mg/kg
DDD, o,p'-	<0.05 mg/kg
DDD, p,p'-	<0.05 mg/kg
DDE, o,p'-	<0.05 mg/kg
DDE, p,p'-	<0.05 mg/kg
DDT, o,p'-	<0.05 mg/kg
DDT, p,p'-	<0.05 mg/kg



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<b>Sample Serving Size</b>		<b>Date Started</b>	31-May-2019

Analysis	Result
<b>Multi-Residue Analysis for hemp products - 500+ compounds</b>	
DEET (Diethyltoluamide)	<0.05 mg/kg
Deltamethrin	<0.05 mg/kg
Demeton-O	<0.05 mg/kg
Demeton-S	<0.05 mg/kg
Demeton-S-methyl	<0.05 mg/kg
Demeton-S-methyl sulfone	<0.05 mg/kg
Desmedipham	<0.05 mg/kg
Dialifos (Dialifor)	<0.05 mg/kg
Diazinon	<0.05 mg/kg
Diazinon oxon	<0.05 mg/kg
Dichlobenil	<0.05 mg/kg
Dichlofenthion	<0.05 mg/kg
Dichlofluanid	<0.05 mg/kg
Dichlorvos	<0.05 mg/kg
Diclobutrazol	<0.05 mg/kg
Diclocymet (2 diastereoisomers)	<0.05 mg/kg
Dicloran (DCNA)	<0.05 mg/kg
Dicrotophos	<0.05 mg/kg
Dieldrin	<0.05 mg/kg
Diethofencarb	<0.05 mg/kg
Difenoconazole (cis- and trans-)	<0.05 mg/kg
Diflubenzuron	<0.05 mg/kg
Diflufenican	<0.05 mg/kg
Dimethachlor	<0.05 mg/kg
Dimethametryn	<0.05 mg/kg
Dimethenamid	<0.05 mg/kg
Dimethoate	<0.05 mg/kg
Dimethomorph (E- and Z-isomers)	<0.05 mg/kg
Dimetilan	<0.05 mg/kg
Dimoxystrobin	<0.05 mg/kg
Diniconazole	<0.05 mg/kg
Dinitramine	<0.05 mg/kg
Dinotefuran	<0.05 mg/kg
Dioxacarb	<0.05 mg/kg
Diphenamid	<0.05 mg/kg

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<b>Project ID</b>	SUSTAIN_LA-20190528-0075	<b>Receipt Date</b>	28-May-2019
<b>PO Number</b>	NV7031700	<b>Receipt Condition</b>	Ambient temperature
<b>Lot Number</b>	s202242.5	<b>Login Date</b>	28-May-2019
<b>Sample Serving Size</b>		<b>Date Started</b>	31-May-2019

Analysis	Result
<b>Multi-Residue Analysis for hemp products - 500+ compounds</b>	
Diphenylamine	<0.05 mg/kg
Dipropetryn	<0.05 mg/kg
Disulfoton	<0.05 mg/kg
Disulfoton sulfone	<0.05 mg/kg
Disulfoton sulfoxide	<0.05 mg/kg
DMST (Dimethylaminosulfotoluidide)	<0.05 mg/kg
Dodemorph (cis- and trans-)	<0.05 mg/kg
Dodine	<0.05 mg/kg
Enamectin benzoate	<0.05 mg/kg
Endosulfan I (alpha-isomer)	<0.05 mg/kg
Endosulfan II (beta-isomer)	<0.05 mg/kg
Endosulfan sulfate	<0.05 mg/kg
EPN	<0.05 mg/kg
Epoxiconazole	<0.05 mg/kg
Ethaboxam	<0.05 mg/kg
Ethalfuralin	<0.05 mg/kg
Ethidimuron (Sulfadiazole)	<0.05 mg/kg
Ethiofencarb	<0.05 mg/kg
Ethiofencarb sulfone	<0.05 mg/kg
Ethiofencarb sulfoxide	<0.05 mg/kg
Ethion	<0.05 mg/kg
Ethiprole	<0.05 mg/kg
Ethirimol	<0.05 mg/kg
Ethofumesate	<0.05 mg/kg
Ethoprophos (Ethoprop)	<0.05 mg/kg
Etofenprox	<0.05 mg/kg
Etoxazole	<0.05 mg/kg
Etrimfos	<0.05 mg/kg
Famoxadone	<0.05 mg/kg
Fenamidone	<0.05 mg/kg
Fenamiphos	<0.05 mg/kg
Fenamiphos sulfone	<0.05 mg/kg
Fenamiphos sulfoxide	<0.05 mg/kg
Fenarimol	<0.05 mg/kg
Fenazaquin	<0.05 mg/kg

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<b>Project ID</b>	SUSTAIN_LA-20190528-0075	<b>Receipt Date</b>	28-May-2019
<b>PO Number</b>	NV7031700	<b>Receipt Condition</b>	Ambient temperature
<b>Lot Number</b>	s202242.5	<b>Login Date</b>	28-May-2019
<b>Sample Serving Size</b>		<b>Date Started</b>	31-May-2019

Analysis	Result
<b>Multi-Residue Analysis for hemp products - 500+ compounds</b>	
Fenbuconazole	<0.05 mg/kg
Fenbutatin oxide	<0.05 mg/kg
Fenchlorphos (Ronnell)	<0.05 mg/kg
Fenchlorphos oxon	<0.05 mg/kg
Fenhexamid	<0.05 mg/kg
Fenitrothion	<0.05 mg/kg
Fenobucarb	<0.05 mg/kg
Fenoxanil (sum of isomers)	<0.05 mg/kg
Fenoxycarb	<0.05 mg/kg
Fenpropathrin	<0.05 mg/kg
Fenpropidin	<0.05 mg/kg
Fenpropimorph	<0.05 mg/kg
Fenpyroximate	<0.05 mg/kg
Fensulfothion	<0.05 mg/kg
Fensulfothion oxon	<0.05 mg/kg
Fensulfothion oxon sulfone	<0.05 mg/kg
Fensulfothion sulfone	<0.05 mg/kg
Fenthion	<0.05 mg/kg
Fenthion oxon	<0.05 mg/kg
Fenthion oxon sulfone	<0.05 mg/kg
Fenthion oxon sulfoxide	<0.05 mg/kg
Fenthion sulfone	<0.05 mg/kg
Fenthion sulfoxide	<0.05 mg/kg
Fentin	<0.05 mg/kg
Fentrazamide	<0.05 mg/kg
Fenuron	<0.05 mg/kg
Fenvalerate/Esfenvalerate (sum of isomers)	<0.05 mg/kg
Fipronil	<0.05 mg/kg
Fipronil desulfinyl	<0.05 mg/kg
Fipronil sulfone	<0.05 mg/kg
Flzasulfuron	<0.05 mg/kg
Flonicamid	<0.05 mg/kg
Fluazifop-butyl	<0.05 mg/kg
Flucythrinate (sum of isomers)	<0.05 mg/kg
Fludioxonil	<0.05 mg/kg

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<b>Project ID</b>	SUSTAIN_LA-20190528-0075	<b>Receipt Date</b>	28-May-2019
<b>PO Number</b>	NV7031700	<b>Receipt Condition</b>	Ambient temperature
<b>Lot Number</b>	s202242.5	<b>Login Date</b>	28-May-2019
<b>Sample Serving Size</b>		<b>Date Started</b>	31-May-2019

Analysis	Result
<b>Multi-Residue Analysis for hemp products - 500+ compounds</b>	
Flufenacet	<0.05 mg/kg
Flufenoxuron	<0.05 mg/kg
Flumetsulam	<0.05 mg/kg
Flumioxazin	<0.05 mg/kg
Fluometuron	<0.05 mg/kg
Fluopicolide	<0.05 mg/kg
Fluopyram	<0.05 mg/kg
Fluoxastrobin	<0.05 mg/kg
Fluquinconazole	<0.05 mg/kg
Fluridone	<0.05 mg/kg
Flusilazole	<0.05 mg/kg
Flutolanil	<0.05 mg/kg
Flutriafol	<0.05 mg/kg
Fluvalinate tau- (sum of isomers)	<0.05 mg/kg
Fonofos	<0.05 mg/kg
Foramsulfuron	<0.05 mg/kg
Forchlorfenuron	<0.05 mg/kg
Formetanate hydrochloride	<0.05 mg/kg
Formothion	<0.05 mg/kg
Fosthiazate (sum of isomers)	<0.05 mg/kg
Fuberidazole	<0.05 mg/kg
Furalaxyl	<0.05 mg/kg
Furathiocarb	<0.05 mg/kg
Griseofulvin	<0.05 mg/kg
Halofenozide	<0.05 mg/kg
Halosulfuron-methyl	<0.05 mg/kg
Haloxyfop-methyl	<0.05 mg/kg
HCH, alpha- (alpha-BHC)	<0.05 mg/kg
HCH, beta- (beta-BHC)	<0.05 mg/kg
HCH, delta- (delta-BHC)	<0.05 mg/kg
Heptachlor	<0.05 mg/kg
Heptachlor endo-epoxide	<0.05 mg/kg
Heptachlor exo-epoxide	<0.05 mg/kg
Hexachlorobenzene (HCB)	<0.05 mg/kg
Hexaconazole	<0.05 mg/kg

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<b>Project ID</b>	SUSTAIN_LA-20190528-0075	<b>Receipt Date</b>	28-May-2019
<b>PO Number</b>	NV7031700	<b>Receipt Condition</b>	Ambient temperature
<b>Lot Number</b>	s202242.5	<b>Login Date</b>	28-May-2019
<b>Sample Serving Size</b>		<b>Date Started</b>	31-May-2019

Analysis	Result
<b>Multi-Residue Analysis for hemp products - 500+ compounds</b>	
Hexaflumuron	<0.05 mg/kg
Hexazinone	<0.05 mg/kg
Hexythiazox	<0.05 mg/kg
Hydramethylnon	<0.05 mg/kg
Hydroprene, S- (sum of isomers)	<0.05 mg/kg
Imazalil	<0.05 mg/kg
Imazamethabenz-methyl	<0.05 mg/kg
Imazethapyr	<0.05 mg/kg
Imidacloprid	<0.05 mg/kg
Indoxacarb	<0.05 mg/kg
Ipconazole	<0.05 mg/kg
Iprovalicarb	<0.05 mg/kg
Isocarbamid	<0.05 mg/kg
Isocarbophos	<0.05 mg/kg
Isofenphos	<0.05 mg/kg
Isofenphos-methyl	<0.05 mg/kg
Isoprocab	<0.05 mg/kg
Isoprothiolane	<0.05 mg/kg
Isoproturon	<0.05 mg/kg
Isoxaben	<0.05 mg/kg
Isoxadifen-ethyl	<0.05 mg/kg
Isoxaflutole	<0.05 mg/kg
Isoxathion	<0.05 mg/kg
Kresoxim-methyl	<0.05 mg/kg
Lactofen	<0.05 mg/kg
Lenacil	<0.05 mg/kg
Lindane (gamma-HCH, gamma-BHC)	<0.05 mg/kg
Linuron	<0.05 mg/kg
Lufenuron	<0.05 mg/kg
Malaoxon	<0.05 mg/kg
Malathion	<0.05 mg/kg
Mandipropamid	<0.05 mg/kg
Mecarbam	<0.05 mg/kg
Mepanipyrim	<0.05 mg/kg
Mepanipyrim-2-hydroxypropyl	<0.05 mg/kg

## Certificate of Analysis

### Sustainable Labs Inc

1777 Sun Peak Dr  
Park City Utah 84098 United States

<b>Sample Name:</b>	<b>CBD 15mg BKCO-40</b>	<b>Eurofins Sample:</b>	<b>8497392</b>
<b>Project ID</b>	SUSTAIN_LA-20190528-0075	<b>Receipt Date</b>	28-May-2019
<b>PO Number</b>	NV7031700	<b>Receipt Condition</b>	Ambient temperature
<b>Lot Number</b>	s202242.5	<b>Login Date</b>	28-May-2019
<b>Sample Serving Size</b>		<b>Date Started</b>	31-May-2019

Analysis	Result
<b>Multi-Residue Analysis for hemp products - 500+ compounds</b>	
Mephosfolan	<0.05 mg/kg
Mesosulfuron-methyl	<0.05 mg/kg
Metaflumizone	<0.05 mg/kg
Metalaxyl	<0.05 mg/kg
Metamitron	<0.05 mg/kg
Metazachlor	<0.05 mg/kg
Metconazole	<0.05 mg/kg
Methabenzthiazuron	<0.05 mg/kg
Methacrifos	<0.05 mg/kg
Methamidophos	<0.05 mg/kg
Methidathion	<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
Methoprotryne	<0.05 mg/kg
Methoxychlor	<0.05 mg/kg
Methoxyfenozide	<0.05 mg/kg
Metobromuron	<0.05 mg/kg
Metolachlor	<0.05 mg/kg
Metolcarb	<0.05 mg/kg
Metosulam	<0.05 mg/kg
Metoxuron	<0.05 mg/kg
Metrafenone	<0.05 mg/kg
Metribuzin	<0.05 mg/kg
Metsulfuron-methyl	<0.05 mg/kg
Mevinphos (E- and Z-isomers)	<0.05 mg/kg
Mexacarbate	<0.05 mg/kg
MGK 264 (sum of isomers)	<0.05 mg/kg
Mirex	<0.05 mg/kg
Molinate	<0.05 mg/kg
Monocrotophos	<0.05 mg/kg
Monolinuron	<0.05 mg/kg
Myclobutanil	<0.05 mg/kg
Naled (Dibrom)	<0.05 mg/kg

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<b>Project ID</b>	SUSTAIN_LA-20190528-0075	<b>Receipt Date</b>	28-May-2019
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Analysis	Result
<b>Multi-Residue Analysis for hemp products - 500+ compounds</b>	
Naphthol, 1-	<0.05 mg/kg
Napropamide	<0.05 mg/kg
Neburon	<0.05 mg/kg
Nicosulfuron	<0.05 mg/kg
Nitenpyram	<0.05 mg/kg
Nitrofen	<0.05 mg/kg
Nonachlor, cis-	<0.05 mg/kg
Nonachlor, trans-	<0.05 mg/kg
Norflurazon	<0.05 mg/kg
Norflurazon-desmethyl	<0.05 mg/kg
Novaluron	<0.05 mg/kg
Nuarimol	<0.05 mg/kg
Ofurace	<0.05 mg/kg
Omethoate	<0.05 mg/kg
Oxadiazon	<0.05 mg/kg
Oxadixyl	<0.05 mg/kg
Oxamyl	<0.05 mg/kg
Oxamyl oxime	<0.05 mg/kg
Oxasulfuron	<0.05 mg/kg
Oxycarboxin	<0.05 mg/kg
Oxychlordane	<0.05 mg/kg
Oxydemeton-methyl	<0.05 mg/kg
Oxyfluorfen	<0.05 mg/kg
Paclobutrazol	<0.05 mg/kg
Paraoxon	<0.05 mg/kg
Paraoxon-methyl	<0.05 mg/kg
Parathion	<0.05 mg/kg
Parathion-methyl	<0.05 mg/kg
Penconazole	<0.05 mg/kg
Pencycuron	<0.05 mg/kg
Pendimethalin	<0.05 mg/kg
Pentachloroaniline	<0.05 mg/kg
Pentachloroanisole	<0.05 mg/kg
Pentachlorobenzene	<0.05 mg/kg
Pentachlorobenzonitrile	<0.05 mg/kg

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Analysis	Result
<b>Multi-Residue Analysis for hemp products - 500+ compounds</b>	
Pentachlorothioanisole	<0.05 mg/kg
Permethrin (sum of isomers)	<0.05 mg/kg
Perthane (Ethylan)	<0.05 mg/kg
Phenmedipham	<0.05 mg/kg
Phenthoate	<0.05 mg/kg
Phenylphenol, 2- (OPP)	<0.05 mg/kg
Phorate	<0.05 mg/kg
Phorate sulfone	<0.05 mg/kg
Phorate sulfoxide	<0.05 mg/kg
Phosalone	<0.05 mg/kg
Phosmet	<0.05 mg/kg
Phosmet oxon	<0.05 mg/kg
Phosphamidon (E- and Z-isomers)	<0.05 mg/kg
Phoxim	<0.05 mg/kg
Picolinafen	<0.05 mg/kg
Picoxystrobin	<0.05 mg/kg
Piperonyl butoxide	<0.05 mg/kg
Piperophos	<0.05 mg/kg
Pirimicarb	<0.05 mg/kg
Pirimicarb-desmethyl	<0.05 mg/kg
Pirimiphos-ethyl	<0.05 mg/kg
Pirimiphos-methyl	<0.05 mg/kg
Pirimiphos-methyl, N-desethyl-	<0.05 mg/kg
Prallethrin	<0.05 mg/kg
Pretilachlor	<0.05 mg/kg
Primisulfuron-methyl	<0.05 mg/kg
Prochloraz	<0.05 mg/kg
Procymidone	<0.05 mg/kg
Prodiamine	<0.05 mg/kg
Profenofos	<0.05 mg/kg
Profluralin	<0.05 mg/kg
Promecarb	<0.05 mg/kg
Prometon	<0.05 mg/kg
Prometryn	<0.05 mg/kg
Propamocarb	<0.05 mg/kg



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Analysis	Result
<b>Multi-Residue Analysis for hemp products - 500+ compounds</b>	
Propanil	<0.05 mg/kg
Propaquizafop	<0.05 mg/kg
Propargite	<0.05 mg/kg
Propetamphos	<0.05 mg/kg
Propham	<0.05 mg/kg
Propiconazole (sum of isomers)	<0.05 mg/kg
Propoxur	<0.05 mg/kg
Propyzamide (Pronamide)	<0.05 mg/kg
Proquinazid	<0.05 mg/kg
Prosulfocarb	<0.05 mg/kg
Prothioconazole-desthio	<0.05 mg/kg
Prothiofos	<0.05 mg/kg
Pymetrozine	<0.05 mg/kg
Pyracarbolid	<0.05 mg/kg
Pyraclostrobin	<0.05 mg/kg
Pyraflufen-ethyl	<0.05 mg/kg
Pyrazophos	<0.05 mg/kg
Pyrethrum (total)	<0.50 mg/kg
Pyridaben	<0.05 mg/kg
Pyridalyl	<0.05 mg/kg
Pyridaphenthion	<0.05 mg/kg
Pyridate	<0.05 mg/kg
Pyrifenoxy (E- and Z-isomers)	<0.05 mg/kg
Primethanil	<0.05 mg/kg
Pyriproxyfen	<0.05 mg/kg
Pyroquilon	<0.05 mg/kg
Pyroxsulam	<0.05 mg/kg
Quinalphos	<0.05 mg/kg
Quinmerac	<0.05 mg/kg
Quinoclamine	<0.05 mg/kg
Quinoxifen	<0.05 mg/kg
Quintozene	<0.05 mg/kg
Quizalofop-ethyl	<0.05 mg/kg
Resmethrin (sum of isomers)	<0.05 mg/kg
Rimsulfuron	<0.05 mg/kg

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Analysis	Result
<b>Multi-Residue Analysis for hemp products - 500+ compounds</b>	
Rotenone	<0.05 mg/kg
S421	<0.05 mg/kg
Schradan (Octamethylpyrophosphoramidate)	<0.05 mg/kg
Secbumeton	<0.05 mg/kg
Sethoxydim (E- and Z-isomers)	<0.05 mg/kg
Siduron	<0.05 mg/kg
Silthiofam	<0.05 mg/kg
Simazine	<0.05 mg/kg
Simeconazole	<0.05 mg/kg
Simetryn	<0.05 mg/kg
Spinetoram (spinosyns J and L)	<0.05 mg/kg
Spinosad (spinosyns A and 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 (2 diastereoisomers)	<0.05 mg/kg
Sulfallate	<0.05 mg/kg
Sulfentrazone	<0.05 mg/kg
Sulprofos	<0.05 mg/kg
Tebuconazole	<0.05 mg/kg
Tebufenozide	<0.05 mg/kg
Tebufenpyrad	<0.05 mg/kg
Tebupirimfos	<0.05 mg/kg
Tebuthiuron	<0.05 mg/kg
Tecnazene	<0.05 mg/kg
Teflubenzuron	<0.05 mg/kg
Tefluthrin	<0.05 mg/kg
Temephos	<0.05 mg/kg
Tepaloxydim (E- and Z-isomers)	<0.05 mg/kg
Terbacil	<0.05 mg/kg
Terbufos	<0.05 mg/kg
Terbufos sulfone	<0.05 mg/kg
Terbufos sulfoxide	<0.05 mg/kg
Terbumeton	<0.05 mg/kg

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Analysis	Result
<b>Multi-Residue Analysis for hemp products - 500+ compounds</b>	
Terbutylazine	<0.05 mg/kg
Terbutryn	<0.05 mg/kg
Tetrachloroaniline, 2,3,5,6-	<0.05 mg/kg
Tetrachloroanisole, 2,3,4,5-	<0.05 mg/kg
Tetrachlorvinphos	<0.05 mg/kg
Tetraconazole	<0.05 mg/kg
Tetradifon	<0.05 mg/kg
Thiabendazole	<0.05 mg/kg
Thiabendazole-5-hydroxy-	<0.05 mg/kg
Thiacloprid	<0.05 mg/kg
Thiamethoxam	<0.05 mg/kg
Thiazopyr	<0.05 mg/kg
Thidiazuron	<0.05 mg/kg
Thifensulfuron-methyl	<0.05 mg/kg
Thiobencarb (Benthiocarb)	<0.05 mg/kg
Thiodicarb	<0.05 mg/kg
Thiofanox	<0.05 mg/kg
Thiofanox sulfone	<0.05 mg/kg
Thiofanox sulfoxide	<0.05 mg/kg
Thionazin (Zinophos)	<0.05 mg/kg
Thiophanate-methyl	<0.05 mg/kg
Tolclofos-methyl	<0.05 mg/kg
Tolfenpyrad	<0.05 mg/kg
Tolyfluanid	<0.05 mg/kg
Tralkoxydim	<0.05 mg/kg
Triadimefon	<0.05 mg/kg
Triadimenol	<0.05 mg/kg
Triasulfuron	<0.05 mg/kg
Triazophos	<0.05 mg/kg
Tribenuron-methyl	<0.05 mg/kg
Tribufos (DEF)	<0.05 mg/kg
Trichlorfon (Metrifonate)	<0.05 mg/kg
Trichloroanisole, 2,4,6-	<0.05 mg/kg
Tricyclazole	<0.05 mg/kg
Trietazine	<0.05 mg/kg

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Analysis	Result
<b>Multi-Residue Analysis for hemp products - 500+ compounds</b>	
Trifloxystrobin	<0.05 mg/kg
Trifloxysulfuron	<0.05 mg/kg
Triflumizole	<0.05 mg/kg
Triflumuron	<0.05 mg/kg
Trifluralin	<0.05 mg/kg
Triforine	<0.05 mg/kg
Trimethacarb	<0.05 mg/kg
Triticonazole	<0.05 mg/kg
Uniconazole	<0.05 mg/kg
Vamidothion	<0.05 mg/kg
Vinclozolin	<0.05 mg/kg
Zoxamide	<0.05 mg/kg

Method References	Testing Location
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<b>Multi-Residue Analysis for hemp products - 500+ compounds (PEST_HEMP)</b>	<b>Food Integ. Innovation-Greenfield</b>
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*Official Methods of Analysis, AOAC Official Method 2007.01, Pesticide Residues in Foods by Acetonitrile Extraction and Partitioning with Magnesium Sulfate, AOAC INTERNATIONAL (modified).*

*CEN Standard Method EN 15662: Food of plant origin - Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/partitioning and clean-up by dispersive SPE - QuEChERS method.*

List of the tested pesticides and their limits of quantification (LOQs) are available upon request.

Testing Location(s)	Released on Behalf of Eurofins by
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<b>Food Integ. Innovation-Greenfield</b>	<b>Karelyn Koehn - Manager</b>
------------------------------------------	--------------------------------

Eurofins Food Chemistry Testing US, Inc.  
671 S. Meridian Road  
Greenfield IN 46140  
800-675-8375



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