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CERTIFICATE OF ANALYSIS

Product Information

Product Name: 65% Dark Chocolate with
300mg CBD Hemp Oil
 Product Type: Solid
 HS Code: 2907 29 - Polyphenols
 CAS #:
 Batch Number: CH-1
 Manufacture Date: 12/05/2020



Sample Information

Sample Number: CH-1
 Sample Received: 12/05/2020
 Sample Condition: Suitable
 Start of Analysis: 12/05/2020
 Report Created: 12/05/2020

SUMMARY

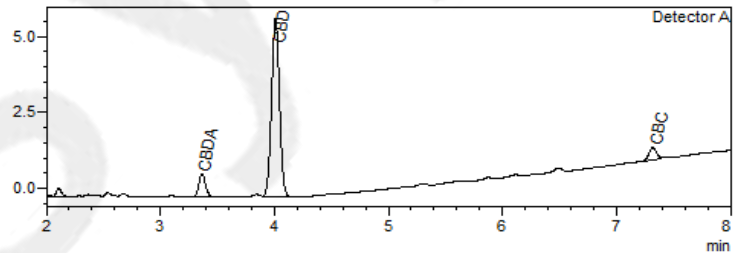
TOTAL CBD* 0,31

TOTAL THC* ND

Quantitative Results

Compound Name	Concentration, w/w %
CBDV - Cannabidivarin	ND
CBDA - Cannabidiolic acid	0,030
CBGA - Cannabigerolic acid	ND
CBG - Cannabigerol	ND
CBD - Cannabidiol	0,310
THCV - Tetrahydrocannabivarin	ND
CBN - Cannabinol	ND
CBC - Cannabichromene	0,010
THC - Δ8-Tetrahydrocannabinol	ND
THC - Δ9-Tetrahydrocannabinol	ND
THCA - Δ9-Tetrahydrocannabinolic acid	ND

Chromatogram



Units and abbreviations: **w/w %** = weight percent, **ND** = the measured value was below the limit of quantification of 0.001 %

*For the calculations of the equivalence sums, the respective acid forms were multiplied by the factor of 0.877 and 0.878, respectively, to infer the equivalent amount of the neutral forms.

Instrumental and analytical conditions:

Sample preparation: 0.01 g (± 0.00001) of homogenous sample was diluted with 1 mL of HPLC grade methanol. Diluted sample was mixed, vortexed and centrifuged. Then the mixture was diluted again to a final concentration of 0.1 mg/mL. Peak identification and quantification was performed by comparing retention times and UV absorption spectra of the samples with those of the standard solutions.

Equipment: Quantitative analysis was performed using Shimadzu Cannabis Analyzer for Potency - an integrated HPLC system with built-in sample cooler, degasser, autoinjector and UV detector. NexLeaf CBX for potency, 2.7 μ m, 4.6 x 150 mm column coupled with NexLeaf CBXGuard column was eluted. Data was analyzed using Shimadzu LabSolutions software.

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12/05/2020

Approved by:

LMC

Chief Analyst

Authorized by:

Dr. SPa

Chief Scientific Officer



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 Product Type: Solid
 HS Code: 2907 29 - Polyphenols
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 Batch Number: CH 6
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Sample Information

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TERPENES

Analyzed by GC/FID

Compound Name	Conc., w/w %	Quantity, mg/g	Relative Concentration
Alpha-Pinene	ND	ND	0
Camphene	ND	ND	0
Beta-Myrcene	ND	ND	0
Beta-Pinene	ND	ND	0
Delta-3-Carene	ND	ND	0
Alpha- Terpinene	ND	ND	0
Ocimene 1	ND	ND	0
D-Limonene	ND	ND	0
p -Cymene	ND	ND	0
Ocimene 2	ND	ND	0
Eucalyptol	ND	ND	0
y-Terpinene	ND	ND	0
Terpinolene	ND	ND	0
Linalool	ND	ND	0
Geraniol	ND	ND	0
Beta- Caryophyllene	ND	ND	0
Alpha-Humulene	ND	ND	0
Guaiol	ND	ND	0

Units and abbreviations: **w/w %** = weight percent, **ND** = the measured value was below the limit of quantification of 0.001 %

Instrumental and analytical conditions:

Sample preparation: 0.05 g (± 0.00001) of homogenous sample was weighted in GC 20 ml vial. Equipment: Quantitative analysis was performed using Shimadzu GC system which consists of HS sampler, gas chromatograph and FID detector. Capillary column used for analysis - Rxi-624Sil Ms, 30 m x 0.32 mmID x 1.8 μ m df. Hydrogen was used as carrier gas. Oven temperature range was set within 100 - 230 °C. Data was analyzed using Shimadzu LabSolutions software.

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RESIDUAL SOLVENTS

Element Name	LOQ, PPM	Limit, PPM	Results of Testing	Status
Acetone	50	500	<LOQ	Pass
Butyl acetate	50	500	<LOQ	Pass
1-Butanol	50	500	<LOQ	Pass
2-Butanol	50	500	<LOQ	Pass
Ethanol	50	500	<LOQ	Pass
Ethyl acetate	50	500	<LOQ	Pass
Diethyl ether	50	500	<LOQ	Pass
n-Heptane	50	500	<LOQ	Pass
Isobutanol	50	500	<LOQ	Pass
1-Propanol	50	500	<LOQ	Pass
2-Propanol	50	500	<LOQ	Pass
Propyl acetate	50	500	<LOQ	Pass
n-Pentane	50	500	<LOQ	Pass
1-Pentanol	50	500	<LOQ	Pass

Units and abbreviations: **LOQ** = limit of quantification, **PPM** = parts per million

Instrumental and analytical conditions:

Sample preparation: 0.05 g (± 0.00001) of homogenous sample was weighted in GC 20 ml vial.

Equipment: Quantitative analysis was performed using Shimadzu GC system which consists of HS sampler, gas chromatograph and FID detector. Capillary column used for analysis - Rxi-624Sil Ms, 30 m x 0.32 mmID x 1.8 μ m df. Hydrogen was used as carrier gas. Oven temperature range was set within 35 - 110 °C. Data was analyzed using Shimadzu LabSolutions software.

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HEAVY METALS

Parameter	Method	LOQ	Limit	Results of Testing	Status
Cadmium (Cd) mg/kg	Ph. Eur. 2.4.27	0.001	2	<0.001	Pass
Lead (Pb) mg/kg	Ph. Eur. 2.4.27	0.05	2	<0.05	Pass
Arsenic (As) mg/kg	Ph. Eur. 2.4.27	0.01	2	<0.01	Pass
Mercury (Hg) mg/kg	Ph. Eur. 2.4.27	0.0006	10	<0.0006	Pass

Units and abbreviations: **LOQ** = limit of quantification.

MYCOTOXINS

Parameter	Method	LOQ	Limit	Results of Testing	Status
Aflatoxin B1 µg/kg	Ph. Eur. 2.8.18	0.1	20	<0.1	Pass
Aflatoxin (sum of B1 + B2 + G1 + G2) µg/kg	Ph. Eur. 2.8.18	1.4	20	<1.4	Pass
Ochratoxin A µg/kg	VA45119, Ph. Eur. 2.8.22; Ph. Eur. 2.2.29	0.25	20	<0.25	Pass

Units and abbreviations: **LOQ** = limit of quantification.

MICROBIALS

Parameter	Method	Limit	Results of Testing	Status
Yeasts CFU/g	LST ISO 21527-2:2008	<10	<10	Pass
Moulds CFU/g	LST ISO 21527-2:2008	<10	<10	Pass
Salmonella spp.	LST EN ISO 6579-1:2017	ND	ND	Pass
E. Coli CFU/g	LST ISO 16649-2:2002	ND	ND	Pass

Units and abbreviations: **CFU** = Colony-forming unit, **ND** = not detected

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PESTICIDES

Name	Method	Results of Testing	Status
Full list below	LST EN 15662:2018	All below limit	Pass

ORGANOCHLORINE PESTICIDES

Aldrin; HCH alpha isomer; Chlordane, cis; HCH beta isomer; Chlordane, trans; HCH delta isomer; Chlorfenson; Heptachlor; Chlorothalonil; Heptachlor epoxide, cis; DDD-o,p'; Heptachlor epoxide, trans; DDD-p,p'; Hexachlorobenzene (HCB); DDE-o,p'; Isodrin; DDE-p,p'; Lindane (HCH gamma isomer); DDT-o,p'; Methoxychlor; DDT-p,p'; Metolachlor; Dicofof; Mirex; Dieldrin; Oxychlordane (Octachlorepoxyde); Endosulfan alpha isomer; Pentachloroaniline; Endosulfan beta isomer; Quintozene; Endosulfan sulphate; Tecnazene; Endrin; Vinclozolin; Fenson.

ORGANOPHOSPHORUS PESTICIDES

Azinphos-ethyl; Methacrifos; Azinphos-methyl; Methamidophos; Bromophos; Methidathion; Bromophos-ethyl; Mevinphos; Carbophenothion; Omethoate; Chlorfenvinphos; Paraoxon-methyl; Chlorpyrifos; Parathion; Chlorpyrifos-methyl; Parathion-methyl; Diazinon; Phenthoate; Dichlofenthion; Phorate; Dichlorvos (DDVP); Phosalone; Ethion; Phosmet; Etrimfos; Phosphamidon (sum of isomers); Fenclorphos; Pirimiphos-ethyl; Fenitrothion; Pirimiphos-methyl; Fensulfothion; Profenofos; Fenthion; Propetamphos; Fonofos; Pyrazophos; Heptenophos; Pyridaphenthion; Isofenphos; Quinalphos; Malaoxon; Sulfotep; Malathion; Thiometon; Mecarbam.

PYRETHROIDS

Bifenthrin; Fluvalinate-tau; Cypermethrin (sum of isomers); Permethrin (sum of isomers); Fenvalerate (sum of isomers); Tetramethrin (sum of isomers).

OTHER PESTICIDES

Captan; Procymidone; Dichlofluanid; Propachlor; Folpet; Propiconazole (sum of isomers); Metalaxyl and Metalaxyl-M (sum of isomers); Propyzamide; Metribuzin; Simazine; Myclobutanile; Terbutylazine; Nuarimol; Tetrasul; Penconazole; Trifluralin; Pirimicarb.

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