Organic Hemp CO2 Extract

Sunshine Trading | PHYTO Plus Zwanebloemlaan 222 1087GD Amsterdam NH The Netherlands

Phone: +31(0)20 770 97 91 support@phytopluscbd.com www.phytopluscbd.com Responsible Supervisor: Martin V. Sample Batch #1318

Date samples received: 09 October 2018 Date analysis began: 09 October 2018

Date sample report produced: 11 October 2018

ID Number when available:

Sample Mass 1 g



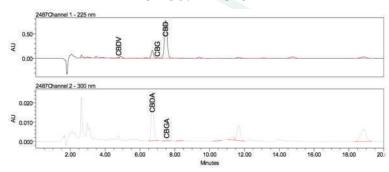


SKAL:100364, ISO 14001: 2004 certified; ISO 9001: 2008 certified, Organic certified: NL-BIO-01, HACCP certified; GMP certified

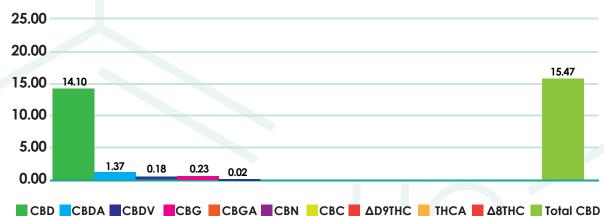
PHYTO Plus 15.47% Total CBD+CBDa: Cannabinoid Profile

Component	Mass (%)	Amount (mg/g)	
CBD	14.10	141.00	
CBDA	1.37	13.70	
CBDV	0.18	1.80	
CBG	0.23	2.30	
CBGA	0.02	0.20	
CBN	≤0.01	≤0.10	
CBC	≤0.01	≤0.10	
Δ9ΤΗС	≤0.01	≤0.10	
THCA	≤0.10	≤1.00	
Δ8THC	≤0.01	≤0.10	
Total CBD+CBDA	15.47	154.70	

Method: HPLC-UV



Cannabinoids as Percent of Total Mass



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Terpenoid Profile

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PHYTO Plus 15.47% Total CBD+CBDa: Terpenoid Profile

Component	Amount (%)	Method: HS-GC-FID
β-Caryophyllene	0.32	FID2 B, (C:CHEM32/1/DATA/TERPENE RESULTS/HEADSPACE ANALYSIS 2018-10-09 14-47-43/00480401.D)
a-Humulene	<0.01	PA 180 -
Caryophyllene oxide	<0.01	160
Myrcene	0.34	120
a-Pinene	0.42	100
Terpinolene	<0.01	80 - 60 -
Humulene epoxide II	<0.01	3
Limonene	0.90	20-
β-Pinene	<0.01	3 4 5 6 7 8 9
E-β-Ocimene	<0.01	
Sabinene	<0.01	Terpenoid Distribution
Linalool	0.11	0.90
■ β-Caryophylle ■ a-Humulene	ene	0.09
Caryophyllen	e oxide	0.675
Myrcene		
a-Pinene		
Terpinolene		0.45
Humulene ep	oxide II	0.32
Limonene β-Pinene		
E-β-Ocimene		0.225
Sabinene		

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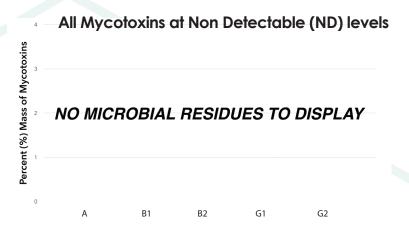


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PHYTO Plus 15.47% Total CBD+CBDa: Microbial Profile

Component	Amount (mg/g)	Result	
Listeria / Monocytogenes	1 g	Not Detected	
Escherichia c.	1 g	Not Detected	
Salmonella	25 g	Not Detected	
Yeast	1 g	Not Detected	
Mold	1 g	Not Detected	

*ND - Not detected



Nutrition Facts

Component	%	
Moisture and volatile content	2.39	
Protein	0.32	
Total Fat	97.13	
Total Carbohydrates	ND	
Dietary fibers	ND	
Sugars	ND	
Ash	ND	

*ND - Not detected

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PHYTO Plus 15.47% Total CBD+CBDa: Heavy Metals Profile

Mass (%)	Amount (ppm)	Limit** (ppm)
*ND	<0.1	<0.1
*ND	<1	<1
*ND	<10	<10
	*ND *ND *ND *ND *ND	*ND <0.1 *ND <0.1 *ND <0.1 *ND <0.1 *ND <0.1 *ND <1

*ND - Not detected, **Codex STAN 193-1995, GB 2762, EC No. 1881/2006, FDA





Conclusions:

No heavy metal residues detected. No flammable residues detected. No chemical residues detected.

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Pesticide Analysis

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Pesticide Analysis: Our tests looked for residue of nearly 300 known pesticides finding no evidence of any over detectable limits.

The Lab tests our products thoroughly. Nearly 300 of the below pesticides concentrations were measured and we are proud to say that all tests measured below our detectable limits. Most tests have a threshold of 0.01 mg/k, while only a handful of tests have a threshold value of <0.05 mg/kg. Not a single test of PHYTO Plus products went over detectable threshold limits.

PESTICIDES MEASURED

Acrinathrin Azoxystrobin Biphenhin Bitertanol Biphenyl Bromopropylate Bromuconazole Bupirimate Cadusafos Captafol Captan Chlorphenson Chlorfenapyr Chlorfenvinphos Chlorothalonil Chlorprophame 3,5-Dichloraniline Chlorpyriphos Chlorpyrifos-methyl Chlorthal-dimethyl Cyfluthrin Cypermethrin Cyproconazole Cyprodinil Clomazone o,p-DDE P,P-DDE o,p-DDD P,P-DDD o,p-DDT p,p-DDT Deltamethri Diazinon Diclofop-methyl Dieldrin Dichlobenil Dichlofluanid Dichlorvos Dicloran Dicofol Dicrotophos Diethofencarb Diflubenzuron Dimetachlor Diniconazole Dodemorph Diphenylamine Alpha-Endosulfan Beta-Endosulfan Endosulfan-sulphate Ethion Etofumesate Ethoprophos Ehtoxyquin Etoxazole Etridiazole Etrimphos Famoxadone Fenarimol Fenazaquin Fenchlorphos Fenhexamid Fenihothion Fenpropidin Fenpropimorph Fenvalerate Formothion Fipronil Fipronil-sulfone Fludioxonil Flusilazole Flutriafol Folpet Fuberidazole Furathiocarb Hexaconazole HCB Alpha-HCH Beta-HCH Delta-HCH Heptachlor Heptachlor-epoxidceis Heptachlorepoxidtreans Iprodione Iprovalicarb Lambda- cyhalothrin Lindane Mecarbam Metalaxv Metazachlor Methidathion Metribuzin Mevinphos Myclobutanil Nuarimol Orthophenylphenol Oxadixyl Paclobutrazol Parathion Parathion-methyl Paraoxon-methyl Paraoxon-ethyl Penconazole Pendimethaline Permethrin Phenthoate Phorate Procymidone Profenofos Propiconazole Propyzamide Pyrazophos Pyrethrins Pyridaben Pyrimethanil Pyriproxyfen Quinoxifen Quitozene Pentachloraniline Phosphamidon Pyrifenox Prometryn Propanil Propoxur Proquinazid Prothiofos Simazine Spiroxamine T au-fluvalinate T ebuconazole T ebufenpyrad T ecnazene T efluthrin T erbuthylazine T etraconazole T etradifon T etramethrine T olclofos-methyl T olylfluanid Transfluthrin Triadimephon Triadimenol Trialate Trifloxystrobin Triflumizole Vinclozolin DDT isomersum Heptachlor (heptachloarnd heptachloer poxidsum) Trifluraline Chlorobenzilate 3-Chloraniline Abamectin (AvermectinBla and AvermectinBlb sum) Acetamiprid Aldicarb Aldikarbsulphone Aldicarbsulphoxide Azinphos-ethyl Azinphos-methyl Benalaxyl Benfuracarb Boscalid Buprofezin Carbaryl Carbendazim Carbofuran 3-hydroksicarbofuran Carbosulfan Chloridazon Cymoxanil Clofentezin Clothianidin Demeton-S-methyl Demeton-S-methyslulfoxid Diafenthiuron Difenoconazole Dimethoate Dimethomorph Diuron EPN Epoxiconazole Ethirimol Etofenprox Fenamidone Fenbuconazole Fenbutatinoxid Fenoxycarb Fenpyroximate Fenpropathrin Fensulfothion Fenthion Fenthionsulphone Fenthionsulphoxide Fluazinam Flufenoxuron Fluquinconazole Fonofos Formetanate Fosthiazate Hexythiazox Imazalil Imidacloprid Indoxacarb Isofenphos Methacrifos Isofenphosmethyl Krezoxim-methyl Linuron Lufenuron Malaoxon Malathion Mepanipirim Mepronil Metamitron Metconazole Methamidophos Methiocarb Methiocarbsulphone Methiocarbsulfoxide Methomyl Methoxyfenozide Metobromuron Monocrotophos Monolinuron Omethoate Oxamyl Pencycuron Phenmedipham Phosalone Phosmet Phosmeot xon Phoxim Pymetrozine Piperonylbutoxide Pyraclostrobin Pyridaphenthion Pyridate Pyrifenox Pirimicarb Pirimicarbdesmethyl Pirimiphos-methyl Primisulfuron-methyl Prochloraz Propamocarb Propargite Prothioconazole Prothioconazole-desthio Quinalphos SpinosynA SpinosynD Sulfotep T ebufenozide T eflubenzuron Thiabendazole Thiacloprid Thiamethoxam Thiodicar Thiophanatemethyl Tralkoxydim Triazophos Trichlorfon Triflumuron Triforine Triticonazole Zoxamide Acephate Amitraz Fenamiphos Fenamiphosulphone Fenamiphosulfoxid Nitempiram Fenthionoxonsulphone Fenthionoxonsulfoxid Kumapho Piriphenox Mehibuzine DEET

Our laboratory analysis is standardized after following protocols:

LST EN ISO 6579:2003 / AC:2006 / P:2007 LST EN ISO 11290-1:2003 / A1:2004 / P:2005 LST ISO 16649-2:2002 / P:2009 LST ISO 21527-2:2008 Method PLM 486G

Note on Cannabinoid Testing:

All cannabinoids in their acid forms (ending in "-A") are convertible to their non-acid forms via a decarboxylation process (heating). The components lose mass through this process. To find the total theoretical active cannabinoids, one multiplies the acid forms by 87.7%. For example, THC-A can be converted to active THC using the formula: THC-A x 0.877 = THC. In this case, the Max THC for the sample is: Max THC = (THC-A x 0.877) + THC. This method has been validated according to the principles of the International Conference on Harmonisation.

Chromatographic Analysis:

Analysis of cannabinoids content was performed using Waters 2695 (Milford, MA, USA) separation module equipped with auto injector, sample cooler, vacuum degasser and column heater units. Separation of all cannabinoids was accomplished on YMC PRO C18 (150 x 4 mm l.D., S-3µm) RP column coupled with C18 precolumn maintained at 30 °C by a CTO-20AC column oven. Isocratic elution consisted of acetonitrile:water (FA 0.5%) (4:1) was done in 30min. The flow rate was maintained at 0.8 ml/min. The cannabinoids CBD, CBG, CBN and THC were monitored at 225 and CBDA, CBGA were monitored at 306 nm respectively using dual absorbance detector Waters 2487 (Milford, MA, USA). The injection volume of 0.1 mg/ml sample was 10 µl. Data evaluation was performed using Clarity software.

Quantification of cannabinoids was obtained from linear regression equation of calibration curve of individual reference standard by plotting concentration versus the area ratio.

The calibration range for CBD, CBG-A, CBG, CBD-A and CBN was linear from 5 to 500 µg/ml. The calibration range for THC was linear from 5 to 100 µg/ml. Elution order CBD-A (RT 6.9 min), CBG-A (RT 7.3 min), CBG (RT 7.3 min) CBD (RT 7.8 min), CBN (RT 12.1), THC (RT 15.5 min).

Sample preparation for HPLC analysis

0.01 g (±.0001) of homogeneous cannabis extract was diluted with 1 ml of methanol (HPLC grade). Solution was sonicated for 5 min and vortexing for 10 sec. Samples before HPLC analysis were centrifuged at 4800 rpm and further diluted with methanol to the final concentration of 1 mg/ml.

Analysis of terpenes was performed using GC-FID system equipped with auto injector. Separation was accomplished on RTX-5 w/Integra-Guard, 30m, 0.25mm ID column.

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