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

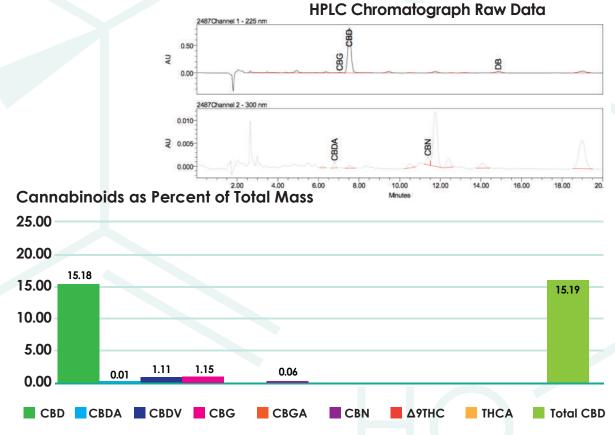
Phone: +31(0)20 770 97 91 support@phytopluscbd.com www.phytopluscbd.com Responsible Supervisor: Martin V. Sample Batch #1317 Date samples received: 21 September 2018 Date analysis began: 21 September 2018 Date sample report produced: 24 September 2018 ID Number when available: Sample Mass 1 g Cannabinoid Profile

Organic Hemp CO2 Extract



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

PHYTO Plus 15.19% Total CBD+CBDa: Cannabinoid Profile				
Component	Mass (%)	Amount (mg/g)	Limit	
CBD	15.18	151.80	N/A	
CBDA	0.01	0.10	N/A	
CBDV	1.11	11.10	N/A	
CBG	1.15	11.50	N/A	
CBGA	≤0.01	≤0.10	N/A	
CBN	0.06	0.60	N/A	
Δ9THC	≤0.01	≤0.10	N/A	
THCA	≤0.01	≤0.10	N/A	
Total CBD+ CBDA	15.19	151.90	N/A	



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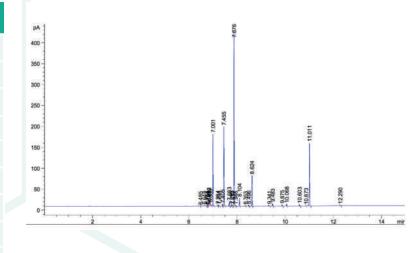
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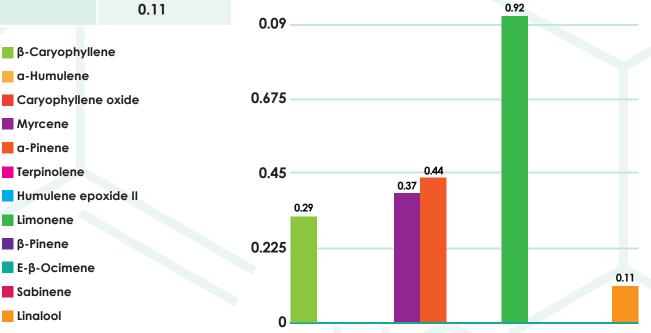
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### PHYTO Plus 15.19% Total CBD+CBDa: Terpenoid Profile

Component	Amount (%)
β-Caryophyllene	0.29
a-Humulene	<0.01
Caryophyllene oxide	<0.01
Myrcene	0.37
a-Pinene	0.44
Terpinolene	<0.01
Humulene epoxide II	<0.01
Limonene	0.92
β-Pinene	<0.01
E-β-Ocimene	<0.01
Sabinene	<0.01
Linalool	0.11



**Terpenoid Distribution** 



### PHYTO+ Certificate of Analysis: Organic Hemp CO2 Extract

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### PHYTO Plus 15.19% 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

#### All Mycotoxins at Non Detectable (ND) levels



Nutrition Facts	A	B1	B2	G1	G2
Component	Amount (%)				
Moisture and volatile content		<0.	1		
Protein		0.3	6		
Total Fat		97.1	6		
Total Carbohydrates	N	ot Detec	:ted		
Dietary fibers	N	ot Detec	ted		
Sugars	N	ot Detec	:ted		
Ash	Ν	ot Detec	:ted		

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Organic Hemp CO2 Extract



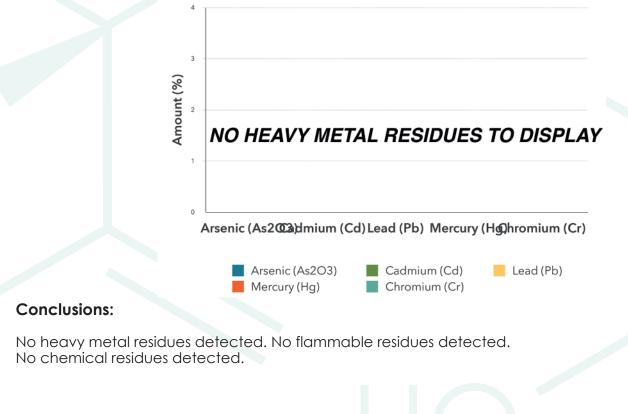
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### PHYTO Plus 15.19% Total CBD+CBDa: Heavy Metals Profile

Component	Mass (%)	Amount (ppm)	Limit** (ppm)
Arsenic (As <sub>2</sub> O <sub>3</sub> )	*ND	<0.1	<0.1
Cadmium (Cd)	*ND	<0.1	<0.1
Lead (Pb)	*ND	<0.1	<0.1
Mercury (Hg)	*ND	<0.1	<0.1
Chromium (Cr)	*ND	<1	<1
Tin (Sn)	*ND	<10	<10

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

All Heavy Metals at Non Detectable (ND) levels



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Organic Hemp CO2 Extract



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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 Fenazaguin 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 Terbuthylazine Tetraconazole Tetradifon Tetramethrine 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.