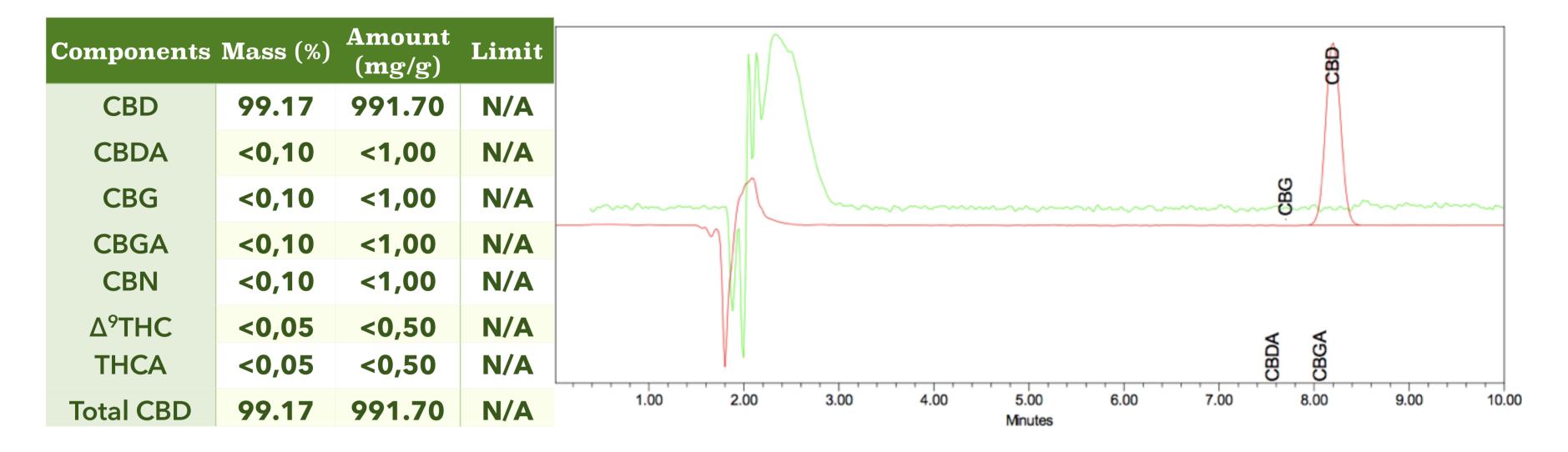
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Responsible Technician:
Sample
Date samples received:
Date analysis began:
Date sample report produced:
ID Number when available:
Sample Mass

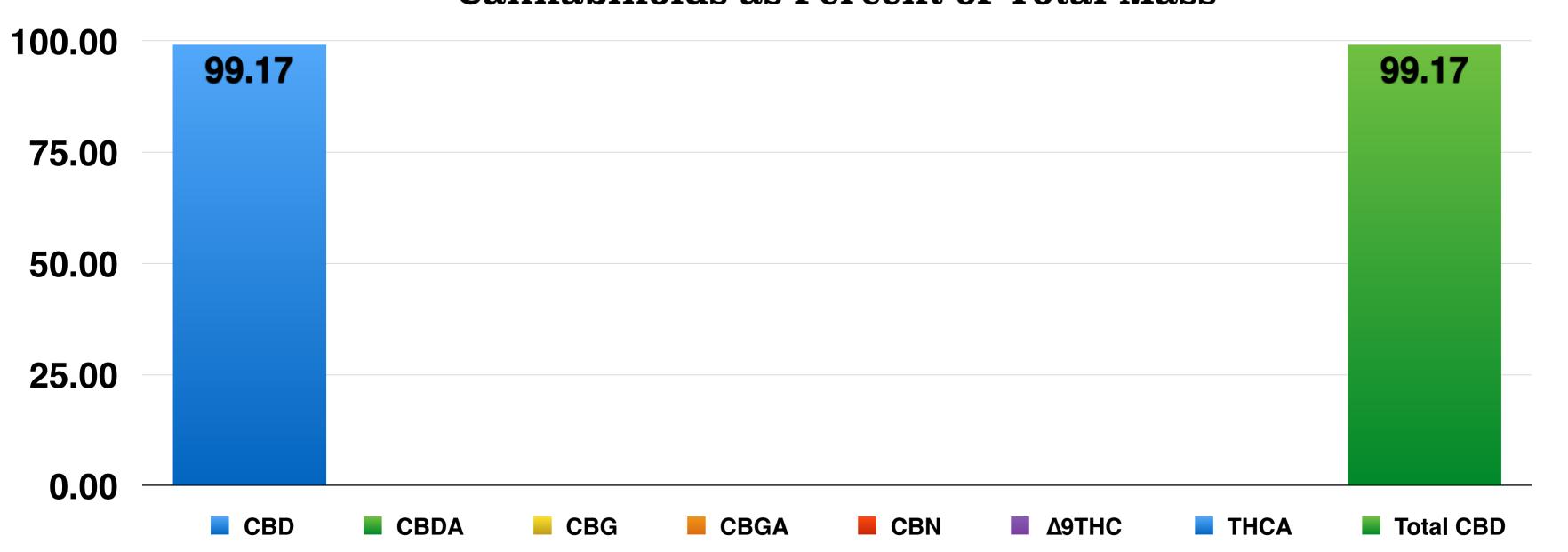
Martin Vangkilde
Paulius K.
Batch# 411
08-August- 2016
08-August- 2016
08-August- 2016

Endoca 99.17% Total CBD: Cannabinoid Profile

HPLC Chromatograph Raw Data



Cannabinoids as Percent of Total Mass



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Endoca 99.17% Total CBD: Terpenoid Profile:

Component	Amount %	pA	1 80	5.169	9		8.638							
β-Caryophyllene	<0.01	40	-	7 A 2 K	0745									
a-Humulene	<0.01]											
Caryophyllene oxide	<0.01	35	-											
Myrcene	<0.01		-											
a-Pinene	<0.01	30]											
Terpinolene	<0.01		:											
Humulene epoxide II	<0.01	25]											
Limonene	<0.01		-											
β-Pinene	<0.01	20] - g			.253								
E-β-Ocimene	<0.01		2.289			7.2								
Sabinene	<0.01		2	4	6	8	3	10	12	14	16	18	20	m
Linalool	<0.01													
							•	Terp	enoi	d Dis	strib	utio	n	

4

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Endoca 99.17% Total CBD: Microbial Profile:

Component	Mass (%)	Amount (mg/g)	Limit	
Listeria	0.00	ND	ND	
Monocytogenes	0.00	ND	ND	
E-Coli	0.00	ND	ND	
Fungi	< 0.01	ND	ND	
Salmonella	0.00	ND	ND	
Molds	0.00	ND	ND	

All Mycotoxins at Non Detectable (ND) levels



Conclusions:

All microbial residues including Listeria, Monocytogenes, E-Coli, Fungi, Salmonella and Molds are all below detectable thresholds

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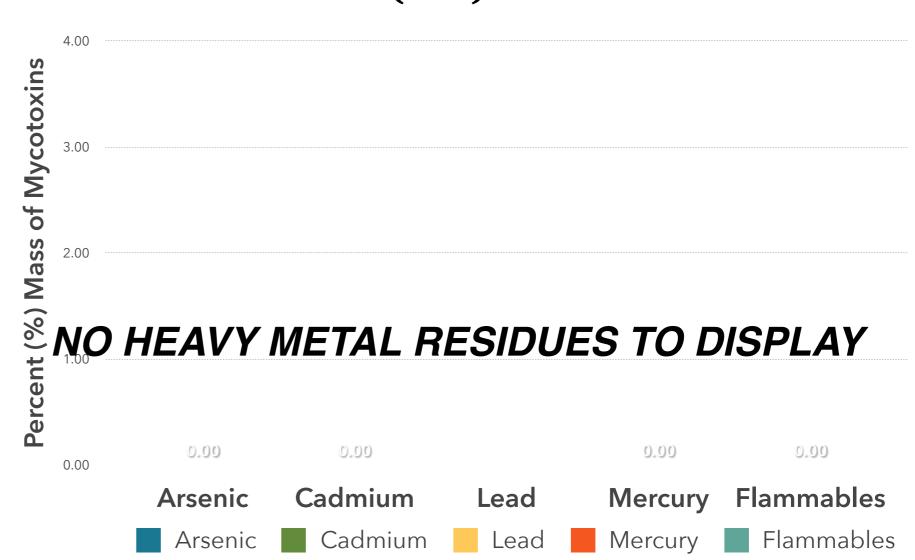
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Endoca 99.17% Total CBD: Heavy Metals Profile:

Component	Mass (%)	Amount (mg/g)	Limit
Arsenic	0.00	ND	ND
Cadmium	0.00	ND	ND
Lead	< 0.01	ND	ND
Mercury	0.00	ND	ND
Flammables	0.00	ND	ND

All Heavy Metals at Non Detectable (ND) levels



Conclusions:

No heavy metal residues detected.

No flammable residues detected.

No chemical residues detected.

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

Endoca Labs 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 Endoca 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 Paraoxonmethyl 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 Shimadzu HPLC system equipped with a SIL 30AC autoinjector with sample cooler, vacuum degassing unit DGU 20A5, pump LC-30AD. Separation of all cannabinoids was accomplished on a Supelco Discovery HS C18 (25 x 4.6 mm, 5 μ m) RP column coupled with C18 pre column maintained at 30 °C by a CTO-20AC column oven.

Isocratic elution consisted of acetonitrile:water (FA 0.5%) (4:1) was done in 30 min. The flow rate was maintained at 0.8 ml/min. The cannabinoids CBD and CBDA were monitored at 225 and 306 nm respectively using SPD-M20A diode array detector. The injection volume of 1 mg/ml sample was 20 μ l. Data evaluation was performed using Lab Solutions 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 was linear from 5 to 500 μ g/ml and for CBDA from 5 to 500 μ g/ml.

Elution order CBD-A (RT 9.5 min), CBD (RT 11.1 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.

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