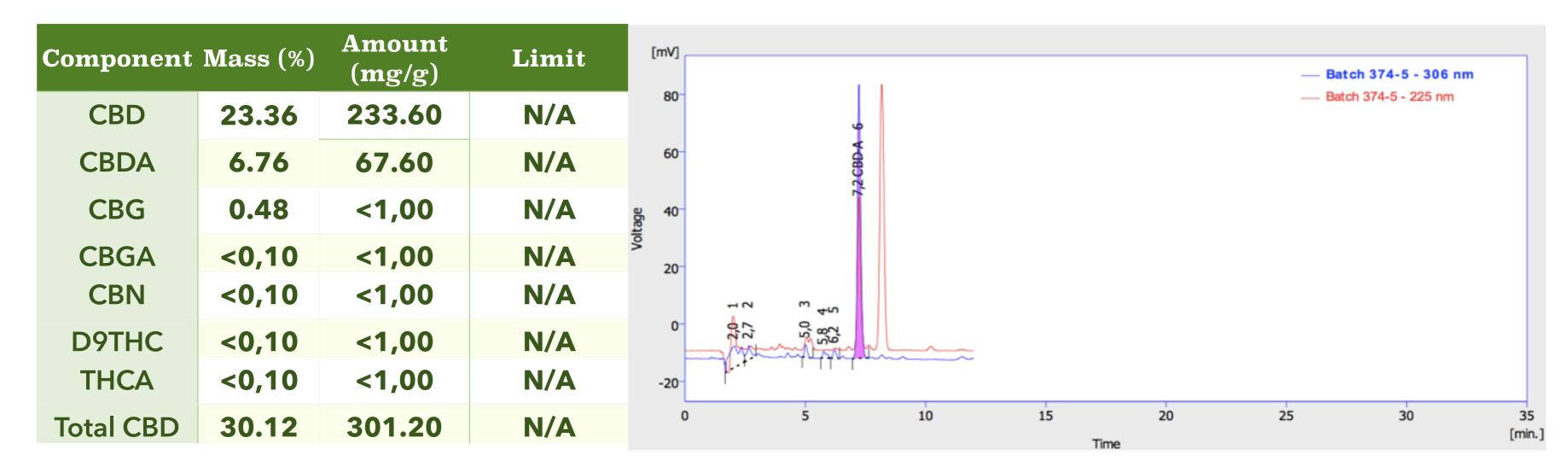
8605 Santa Monica Blvd #48523 Los Angeles, CA 90069-4109 **USA Phone: +1 (719) 203-1544** EU - Denmark Phone: 0045 5260-5440 info@endoca.com www.endoca.com ISO 14001: 2004 certified; ISO 9001: 2008 certified HACCP certified; GMP certified

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

Martin Vangkilde **Paulius K** Batch# 374 31-May 2016 31-May 2016 31-May 2016 <u>1 g</u>

Endoca 30.12% Total CBD: **Cannabinoid Profile**

HPLC Chromatograph Raw Data



40.00 30.00 30.12 23.36 20.00 10.00 6.76 0.48 0.00 **CBD CBGA** D9THC **THCA** Total CBD **CBDA CBG CBN**

Cannabinoids as Percent of Total Mass

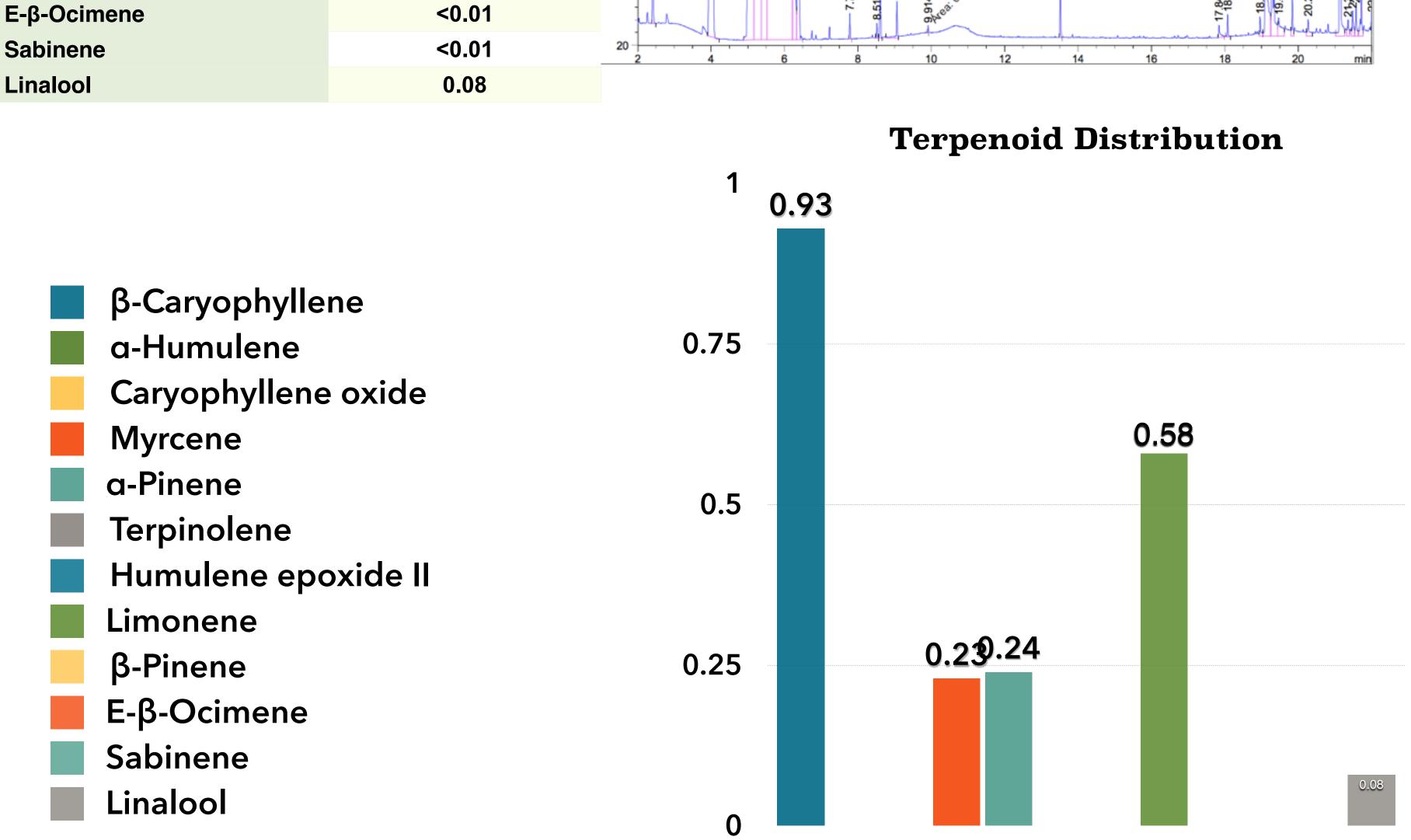
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Responsible Technician:
SampleMartin Vangkilde
Paulius KSample
Date samples received:
Date analysis began:
Date sample report produced:
ID Number when available:
Sample MassMartin Vangkilde
Paulius KId Martin Vangkilde
Paulius KBatch# 374
Batch# 374Bate samples received:
31-May 2016Id Number when available:
Sample MassId g

Endoca 30.12% Total CBD: Terpenoid Profile:

Component	Amount %	pA _	FID1 A, (TERPE		016-05- 26 6	26 17-0	5-24\002F(0201.D) 8			 		_
β-Caryophyllene	0.93	-		u	6			9.6					
a-Humulene	<0.01	45 -	3.951		5.440								
Caryophyllene oxide	<0.01	-			V								
Myrcene	0.23	40 -											
a-Pinene	0.24	-											
Ferpinolene	<0.01	35 -	413									9.287	
lumulene epoxide II	<0.01	30 -	5							19		19	
imonene	0.58											9.106	
β-Pinene	<0.01	25 -					677.	.063	11091		341 8.078	63 1 67 - 19.842	
		- 1	1				L.	9 9	4 0.		X.o	2.2	



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Martin Vangkilde **Paulius K Batch# 374** 31-May 2016 31-May 2016 31-May 2016 **1** g

Endoca 30.12% Total CBD: **Microbial Profile:**

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

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

NO MICROBIAL RESIDUES TO DISPLAY

Listeria Monocytogenes E-Coli

Conclusions:

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

Percent (%) Mass of Mycotoxins

Nutrition Facts

Component	%
Moisture	<0.1
Protein	ND
Total fat	ND
Total Carbohydrates	ND
Dietary Fibers	ND
Sugars	ND
Ash	ND

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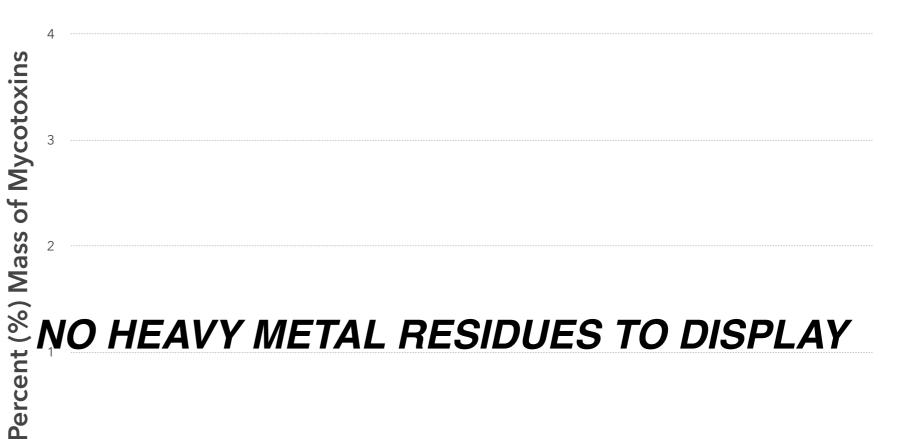
Responsible Supervisor: Responsible Technician: Sample **Date samples received:** Date analysis began: Date sample report produced: _ **ID** Number when available: **Sample Mass**

Martin Vangkilde Paulius K Batch# 374 31-May 2016 31-May 2016 31-May 2016 <u>1 g</u>

Endoca 30.12% Total CBD: **Heavy Metals Profile:**

Component	Mass (%)	Amount (mg/g)	Limit
Arsenic	< 0.01	ND	ND
Cadmium	< 0.01	ND	ND
Lead	< 0.01	ND	ND
Mercury	< 0.01	ND	ND
Flammables	< 0.01	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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8605 Santa Monica Blvd #48523	Responsible Supervisor:	<u>Martin Vangkilde</u>
Los Angeles, CA 90069-4109	Responsible Technician:	Paulius K
USA Phone: +1 (719) 203-1544		<u>Batch# 374</u>
EU - Denmark Phone: 0045 5260-5440	Date samples received:	<u>31-May 2016</u>
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ISO 14001: 2004 certified; ISO 9001: 2008 certified	ID Number when available: _	
HACCP certified; GMP certified	Sample Mass	<u>1 g</u>

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 = $(THC-A \times 0.877) + THC$. 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 I.D., S-3 μ m) 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 30 min. 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 μ l. 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 μ g/ml. The calibration range for THC was linear from 5 to 100 μ g/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.

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