

# Endoca Certificate of Analysis:

## Hemp Oil CO<sub>2</sub> Extract Cannabinoid Profile

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www.endoca.com  
ISO 14001: 2004 certified; ISO 9001: 2008 certified  
HACCP certified; GMP certified

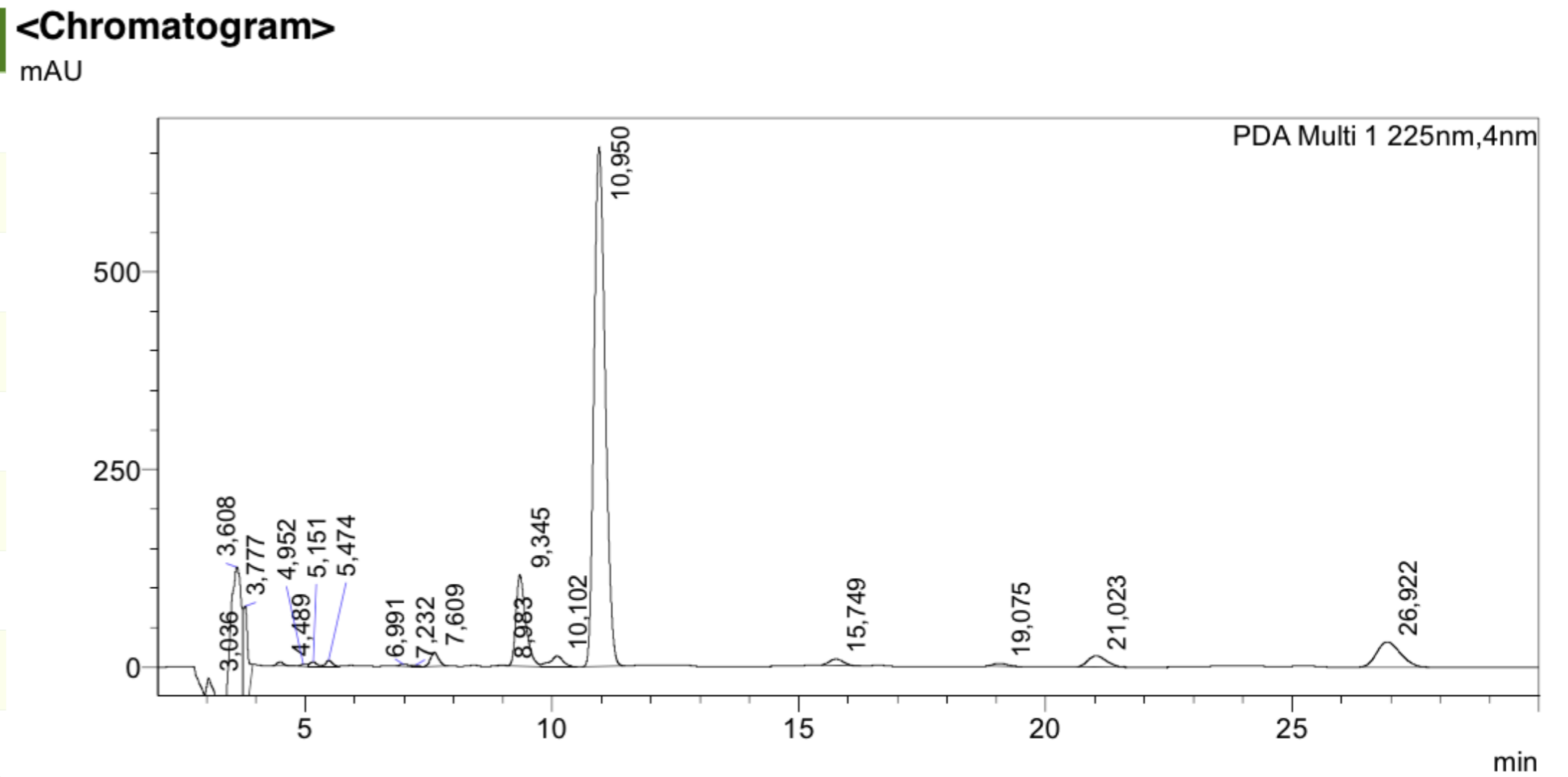
Responsible Supervisor:  
Responsible Technician:  
Sample  
Date samples received:  
Date analysis began:  
Date sample report produced:  
ID Number when available:  
Sample Mass

Martin Vangkilde  
Paul K.  
Batch# 73  
16-Feb-2015  
16-Feb-2015  
16-Feb-2015  
20 uL

### Endoca 22,05% Total CBD Paste: Cannabinoid Profile

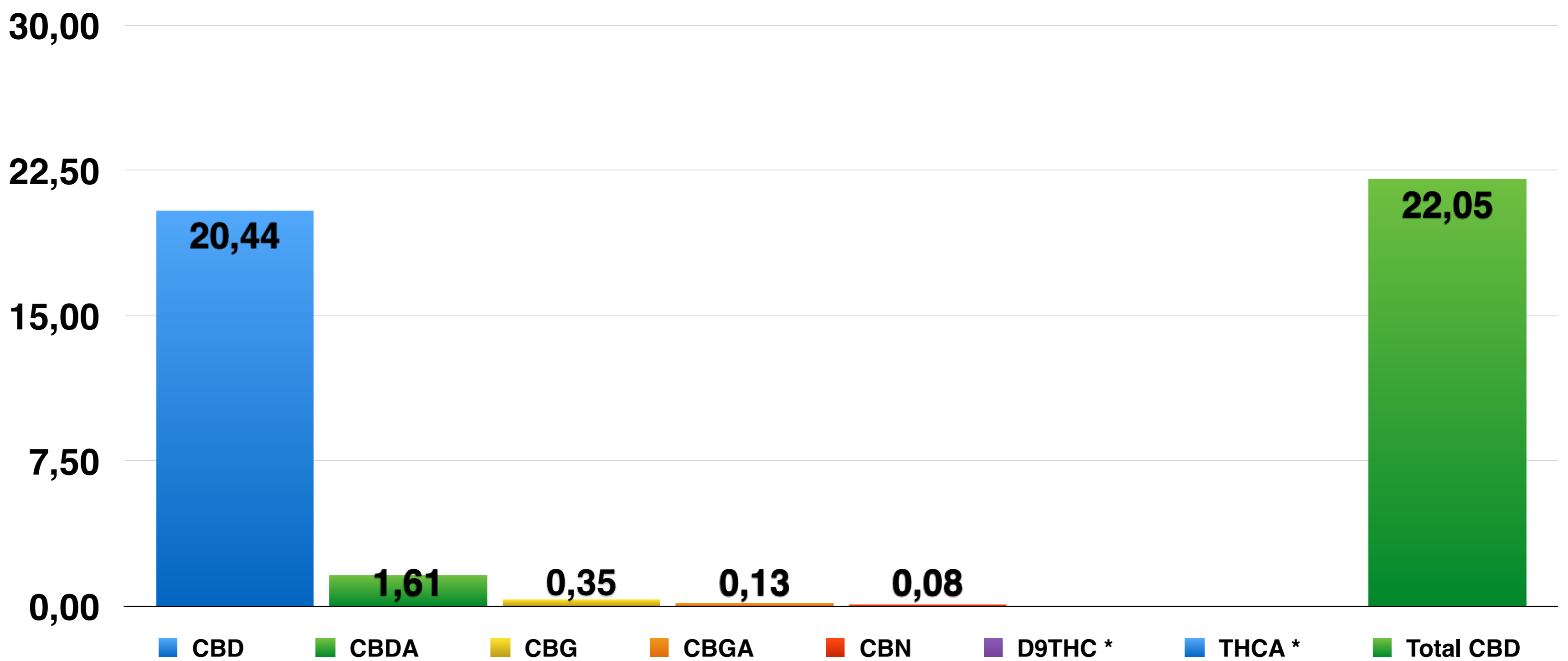
Component	Mass (%)	Amount (mg/g)	Limit
CBD	20,44	204,40	N/A
CBDA	1,61	16,10	N/A
CBG	0,35	3,50	N/A
CBGA	0,13	1,30	N/A
CBN	0,08	0,80	N/A
D9THC *	< 0,20	< 2,00	N/A
THCA *	< 0,20	< 2,00	N/A
<b>Total CBD</b>	<b>22,05</b>	<b>220,50</b>	<b>N/A</b>

### HPLC Chromatograph Raw Data



\* D9THC and THCA under detectable thresholds \*

### Cannabinoids as Percent of Total Mass



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# Endoca Certificate of Analysis:

## Hemp Oil CO<sub>2</sub> Extract Terpenoid Profile

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Sample Mass

Martin Vangkilde  
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Batch# 73  
16-Feb-2015  
16-Feb-2015  
16-Feb-2015  
  
20 uL

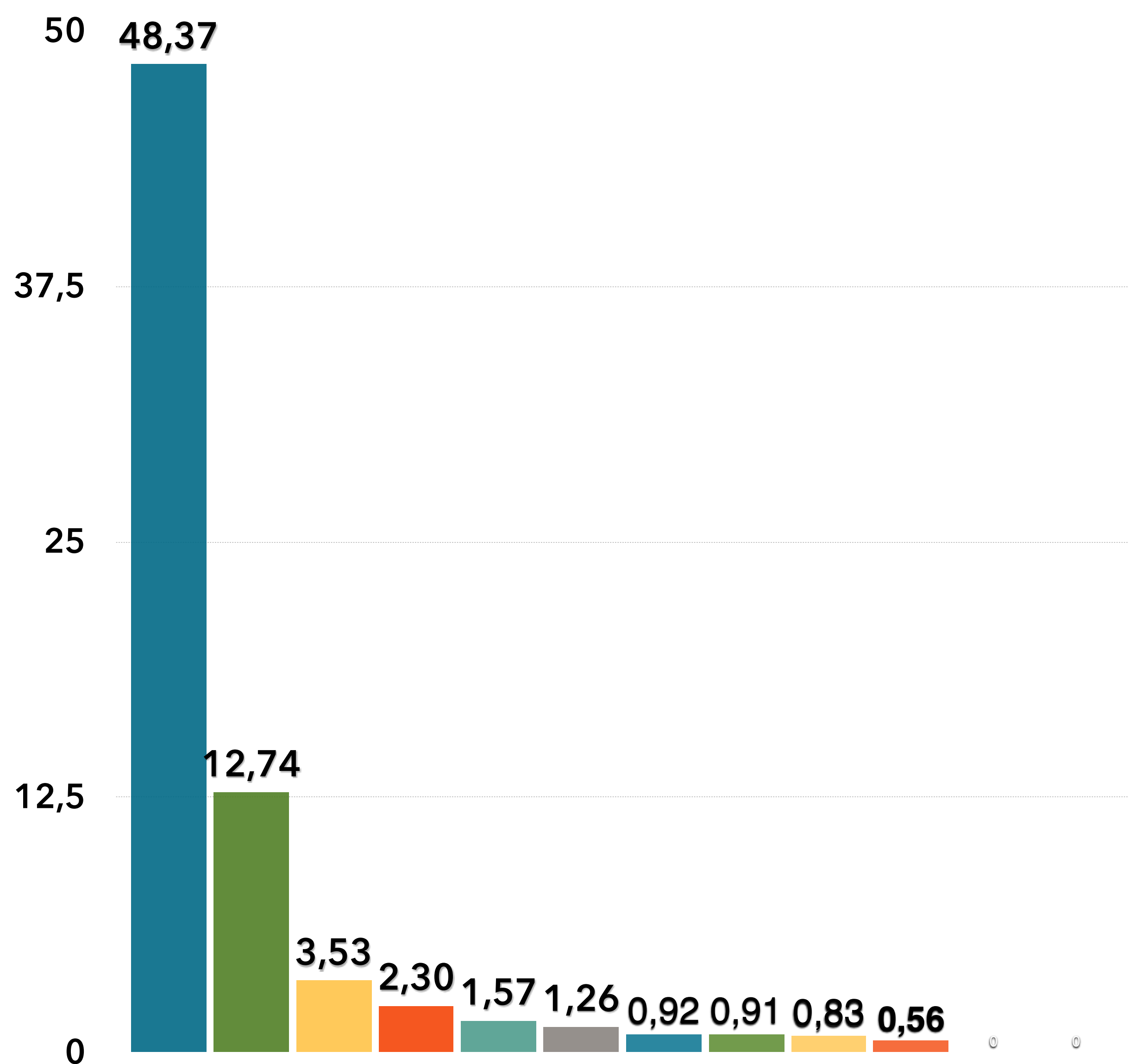
### Endoca 22,05% Total CBD Terpenoid Profile:

Component	Amount %
β-Caryophyllene	48,37
α-Humulene	12,74
Caryophyllene oxide	3,53
Myrcene	2,30
α-Pinene	1,57
Terpinolene	1,26
Humulene epoxide II	0,92
Other	0,91
β-Pinene	0,83
E-β-Ocimene	0,56
Sabinene	0,00
Linalool	0,00

EO from CO<sub>2</sub> extract, 60 MPa,  
Terpenoid yield 2.61% (W/V)

- β-Caryophyllene
- Caryophyllene oxide
- Myrcene
- α-Pinene
- Terpinolene
- Other
- β-Pinene
- E-β-Ocimene
- Sabinene
- Linalool
- Humulene epoxide II
- α-Humulene

### Terpenoid Distribution



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# Endoca Certificate of Analysis:

## Hemp Oil CO<sub>2</sub> Extract Mycotoxin Profile

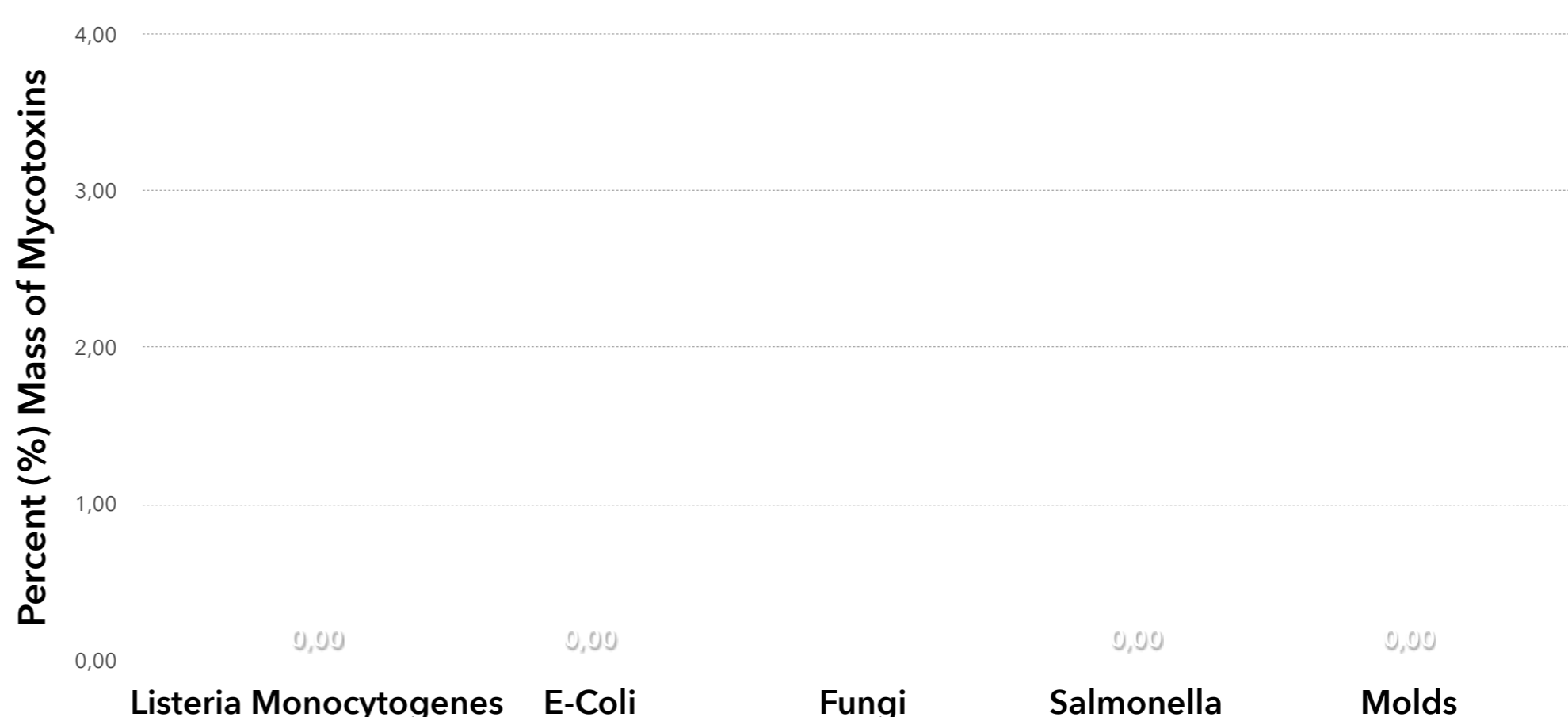
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Responsible Supervisor:	<u>Martin Vangkilde</u>
Responsible Technician:	<u>Paul K.</u>
Sample	<u>Batch# 73</u>
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Date analysis began:	<u>16-Feb- 2015</u>
Date sample report produced:	<u>16-Feb- 2015</u>
ID Number when available:	
Sample Mass	<u>20 uL</u>

### Endoca 22,05% CBD Mycotoxin Profile:

Component	Mass (%)	Amount (mg/g)	Limit
Listeria 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 were below detectable thresholds**

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# Endoca Certificate of Analysis:

## Hemp Oil CO<sub>2</sub> Extract Heavy Metals Profile

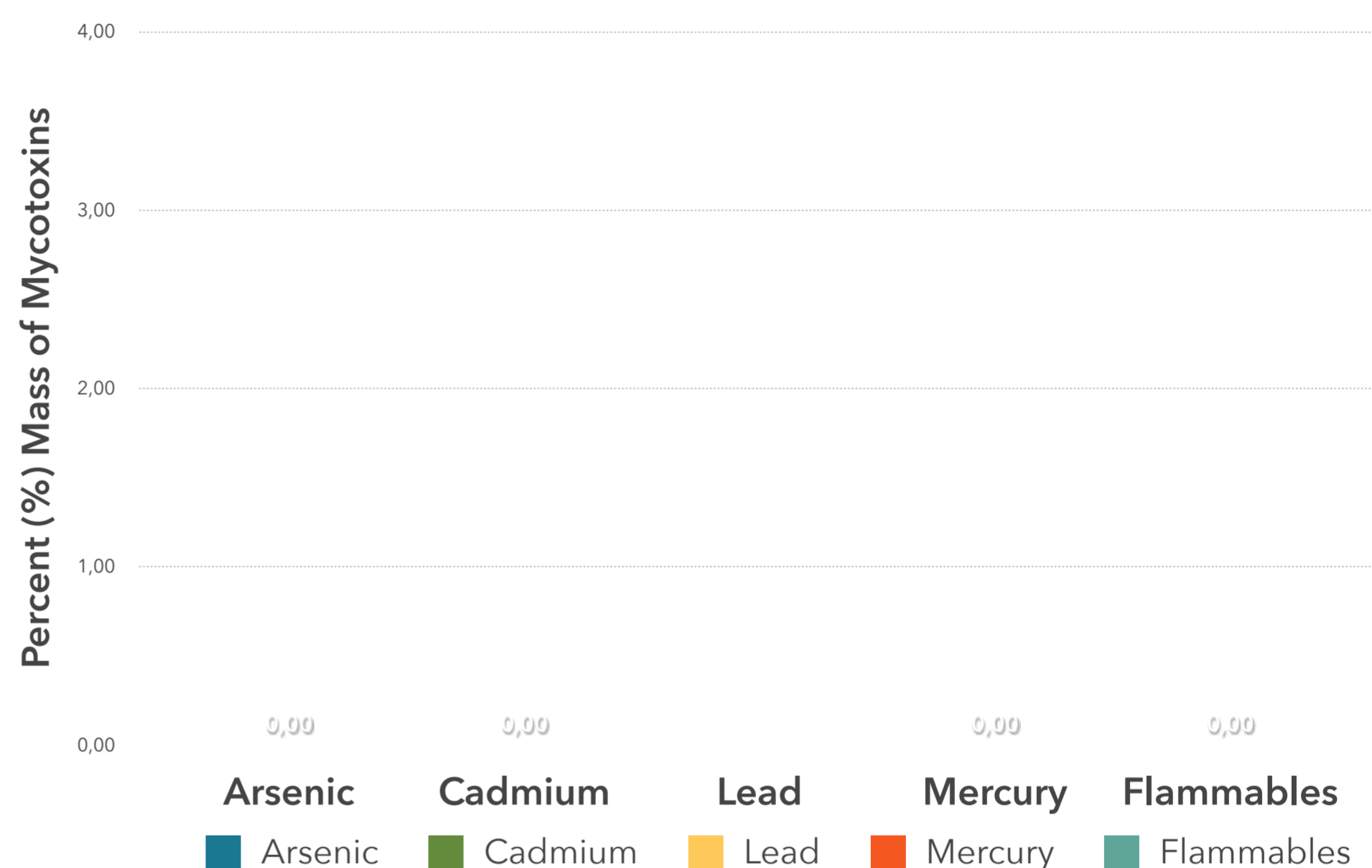
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Date sample report produced:	<u>16-Feb- 2015</u>
ID Number when available:	
Sample Mass	<u>20 uL</u>

### Endoca 22,05% 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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# Endoca Certificate of Analysis:

## Hemp Oil CO<sub>2</sub> Extract Appendix & Pesticide Profile

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Sample	Batch# 73
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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 Chlorpyrifos 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 Fenithion Fenpropidin Fenpropimorph Fenvalerate Formothion Fipronil Fipronil-sulfone Fludioxonil Flusilazole Flutriafol Folpet Fuberidazole Furathiocarb Hexaconazole HCB Alpha-HCH Beta-HCH Delta-HCH Heptachlor Heptachlor-epoxidceis Heptachlor-epoxidtreans 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 Quitozone 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 Aldicarb-sulphoxide Azinphos-ethyl Azinphos-methyl Benalaxyl Benfuracarb Boscalid Buprofezin Carbaryl Carbendazim Carbofuran 3-hydroksicarbofuran Carbosulfan Chloridazon Cymoxanil Clofentezin Clothianidin Demeton-S-methyl Demeton-S-methylsulfoxid Diafenthiuron Difenconazole 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 Isofenphos-methyl 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 Thiophanate-methyl Tralkoxydim Triazophos Trichlorfon Triflumuron Triforine Triticonazole Zoxamide Acephate Amitraz Fenamiphos Fenamiphosulphone Fenamiphosulfoxid Nitempiram Fenthionoxonsulphone Fenthionoxonsulfoxid Kumapho Piriphenox Mehibuzine DEET

**Our laboratory analysis is certified and standardised after following protocols:**

**ISO 14001: 2004 certified**

**ISO 9001: 2008 certified**

**HACCP certified**

**GMP certified**

### 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:  $\text{THC-A} \times 0.877 = \text{THC}$ . In this case, the Max THC for the sample is:  $\text{Max THC} = (\text{THC-A} \times 0.877) + \text{THC}$ . This method has been validated according to the principles of the International Conference on Harmonisation.

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