

Endoca Certificate of Analysis:

Hemp Oil CO₂ Extract Cannabinoid Profile

8605 Santa Monica Blvd #48523
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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

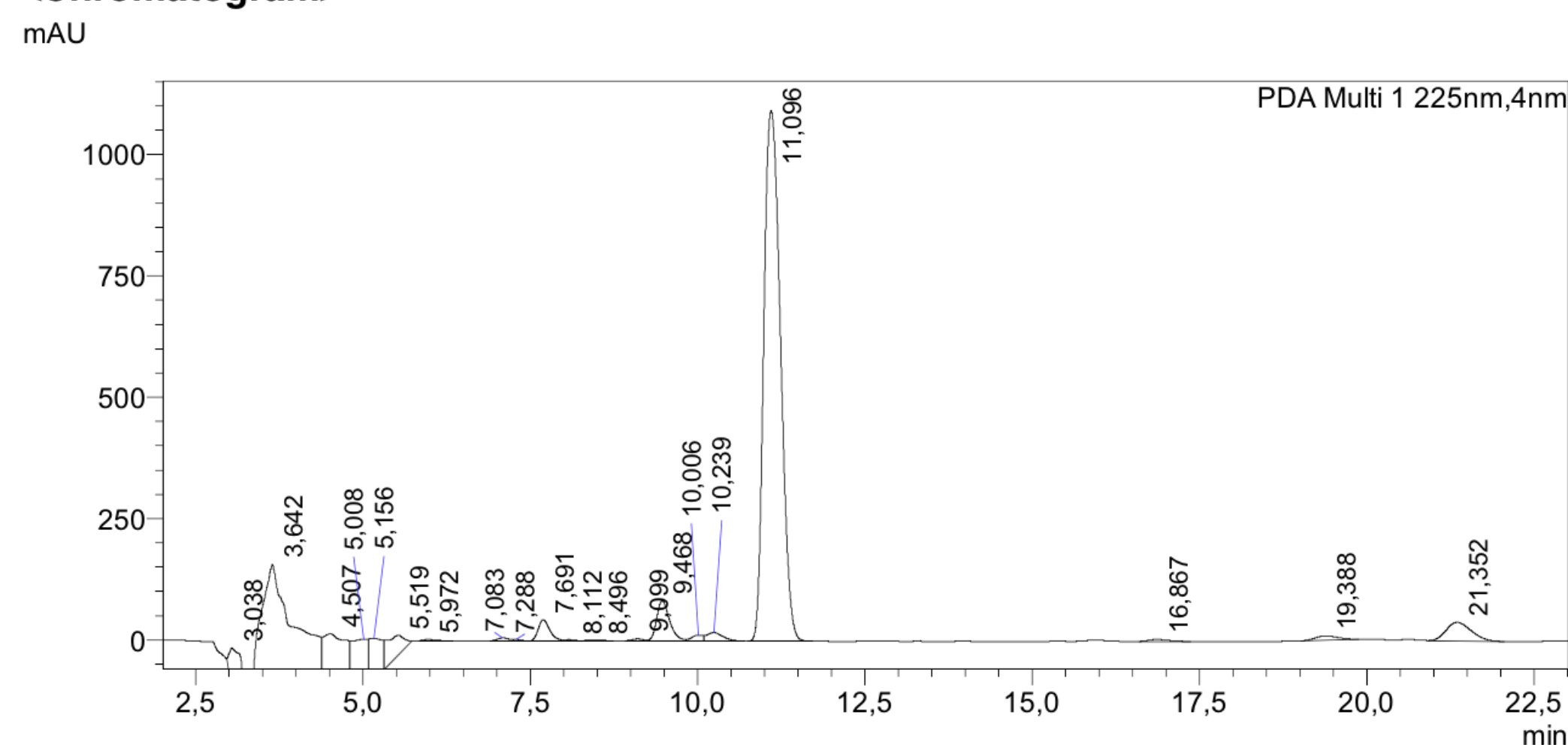
Martin Vangkilde
Paul K.
Batch# 68
2-Feb- 2015
2-Feb- 2015
2-Feb- 2015
20 uL

Endoca 38,37% Total CBD Paste: Cannabinoid Profile

Component	Mass (%)	Amount (mg/g)	Limit
CBD	37,52	375,20	N/A
CBDA	0,85	< 1,00	N/A
CBG	0,60	6,00	N/A
CBGA	0,22	2,20	N/A
CBN	0,14	1,40	N/A
D9THC *	< 0,20	< 2,00	N/A
THCA *	< 0,20	< 2,00	N/A
Total CBD	38,37	383,70	N/A

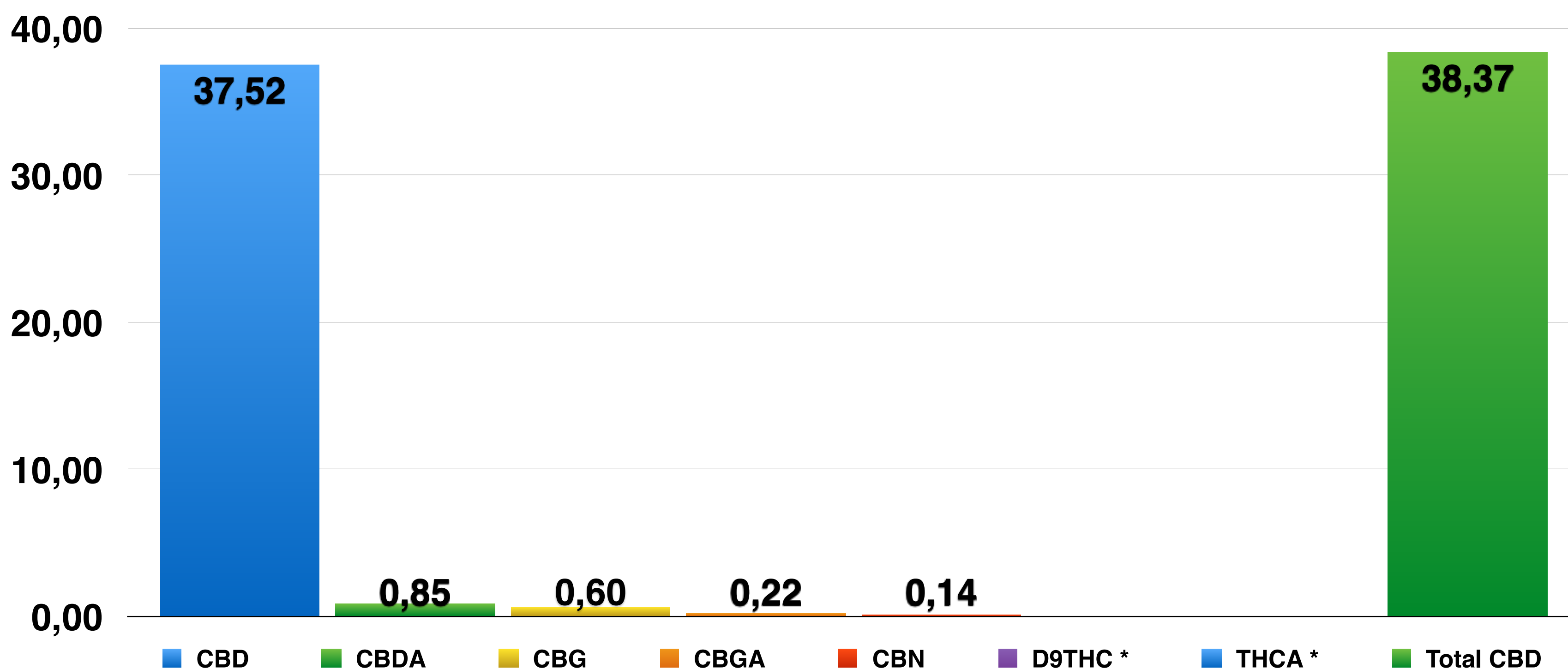
HPLC Chromatograph Raw Data

<Chromatogram>



* D9THC and THCA under detectable thresholds *

Cannabinoids as Percent of Total Mass



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Endoca Certificate of Analysis:

Hemp Oil CO₂ Extract Terpenoid Profile

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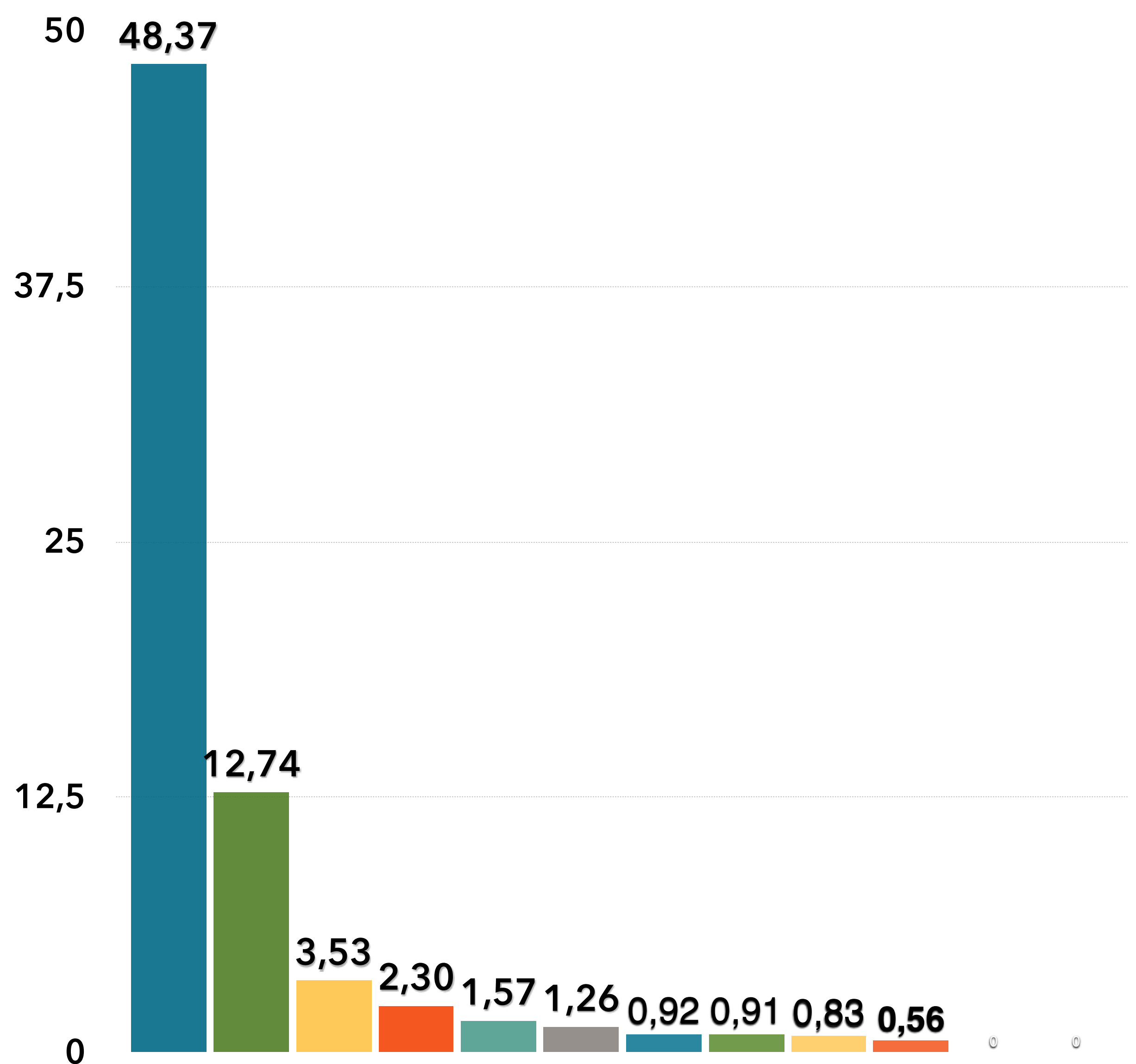
Endoca 38,37% Total CBD Terpenoid Profile:

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 CO₂ extract, 60 MPa,
Terpenoid yield 5.21% (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 CO₂ Extract Microbial Profile

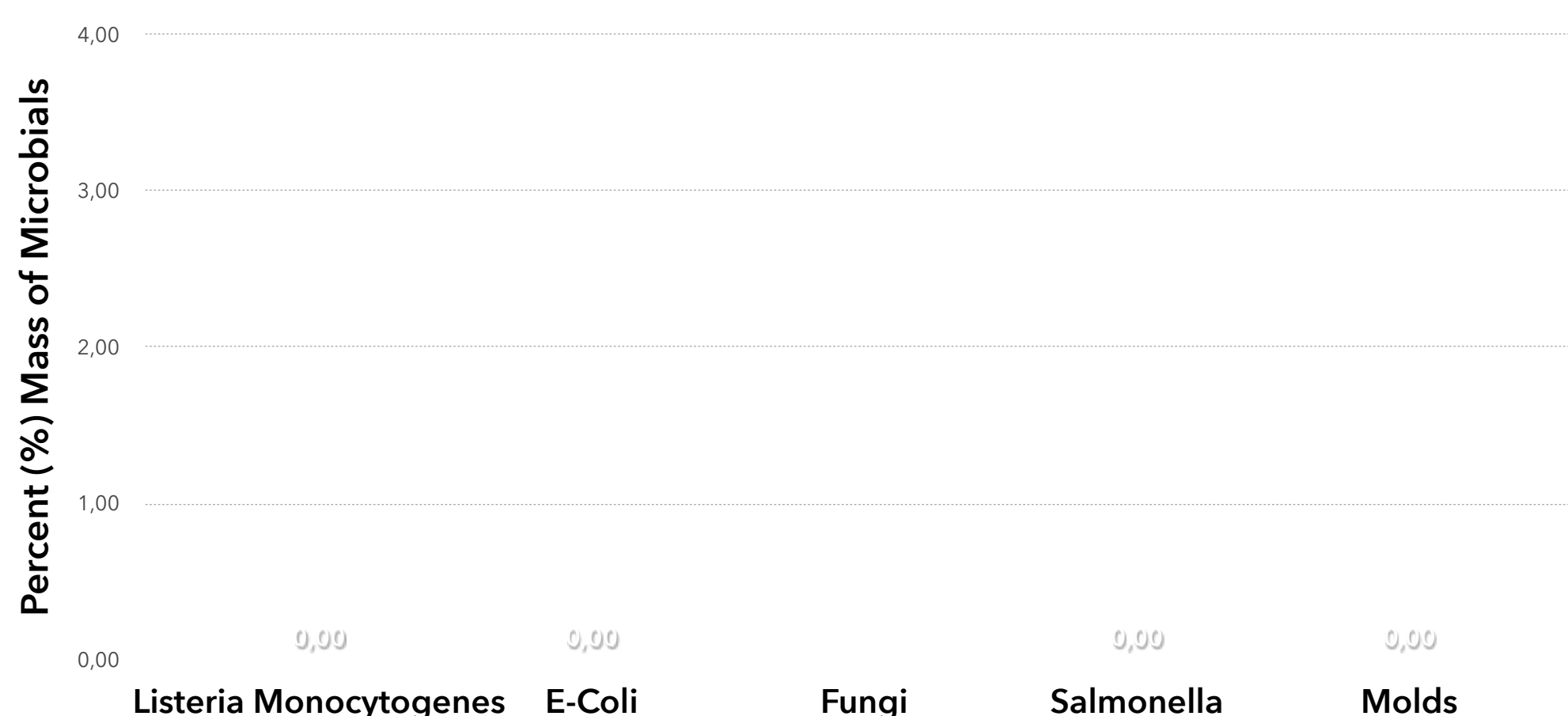
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Sample Mass	<u>20 uL</u>

Endoca 38,37% 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 Microbials at Non Detectable (ND) levels



Conclusions:

All microbial residues were below detectable thresholds

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Endoca Certificate of Analysis:

Hemp Oil CO₂ Extract Heavy Metals Profile

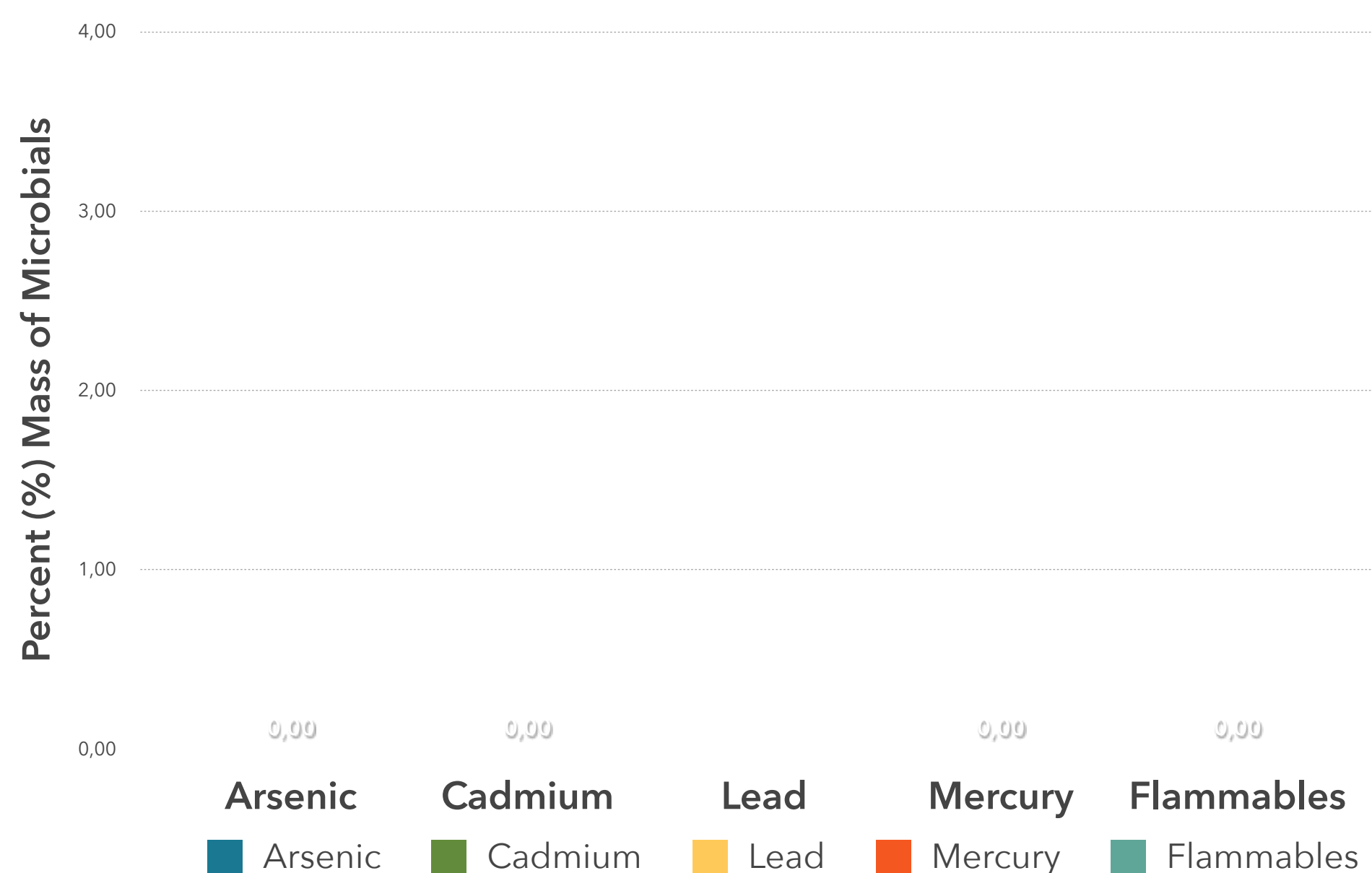
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Endoca 38,37% Total CBD Heavy Metals Profile:

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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Hemp Oil CO₂ Extract Appendix & Pesticide Profile

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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 Aldicarbsulphoxide 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 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 Isofenphos-methyl Krezoxim-methyl Linuron Lufenuron Malaoxon Malathion Mepanipirim Meprotil 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 Thiachloprid 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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