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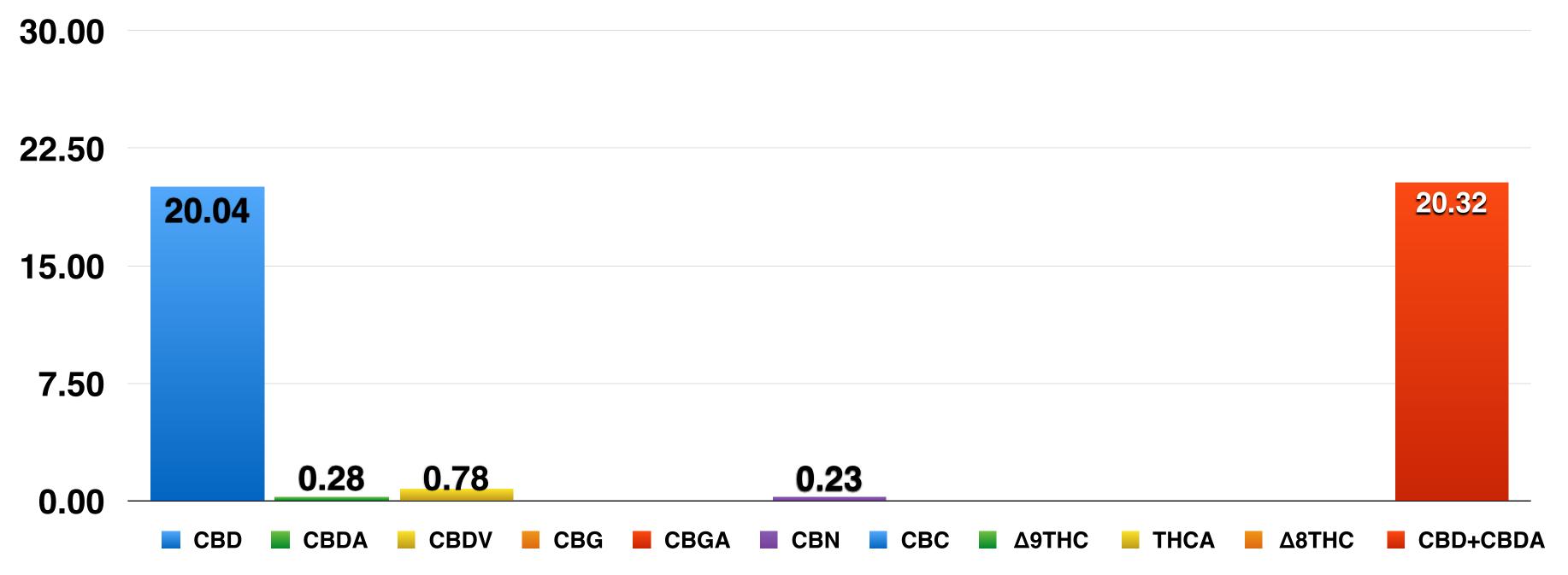
Responsible Supervisor:	Martin V.
Sample _	Batch# 692
Date samples received:	31-May 2017
Date analysis began:	31-May 2017
Date sample report produced: ID Number when available:	31-May 2017
Sample Mass	1 g

Total CBD+CBDA 20.32% Cannabinoid Profile:

HPLC Chromatograph Raw Data

Component	Mass (%)	Amount (mg/g)	Limit	0.50
CBD	20.04	200.40	N/A	HC BB BB
CBDA	0.28	2.80	N/A	
CBDV	0.78	7.80	N/A	2487Channel 2 - 300 nm
CBG	<0.10	<1.00	N/A	
CBGA	<0.10	<1.00	N/A	
CBN	0.23	2.30	N/A	-0.002
CBC	<0.10	<1.00	N/A	2.00 4.00 6.00 8.00 10.00 12.00 14.00 16.00 18 Minutes
Δ9ΤΗC	<0.20	<2.00	N/A	
THCA	<0.20	<2.00	N/A	
Δ8THC	<0.01	<0.10	N/A	
CBD+CBDA	20.32	203.20	N/A	

Cannabinoids as Percent of Total Mass



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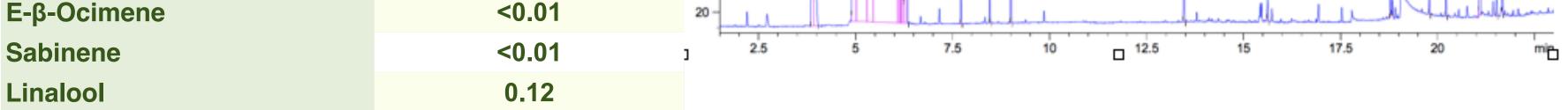
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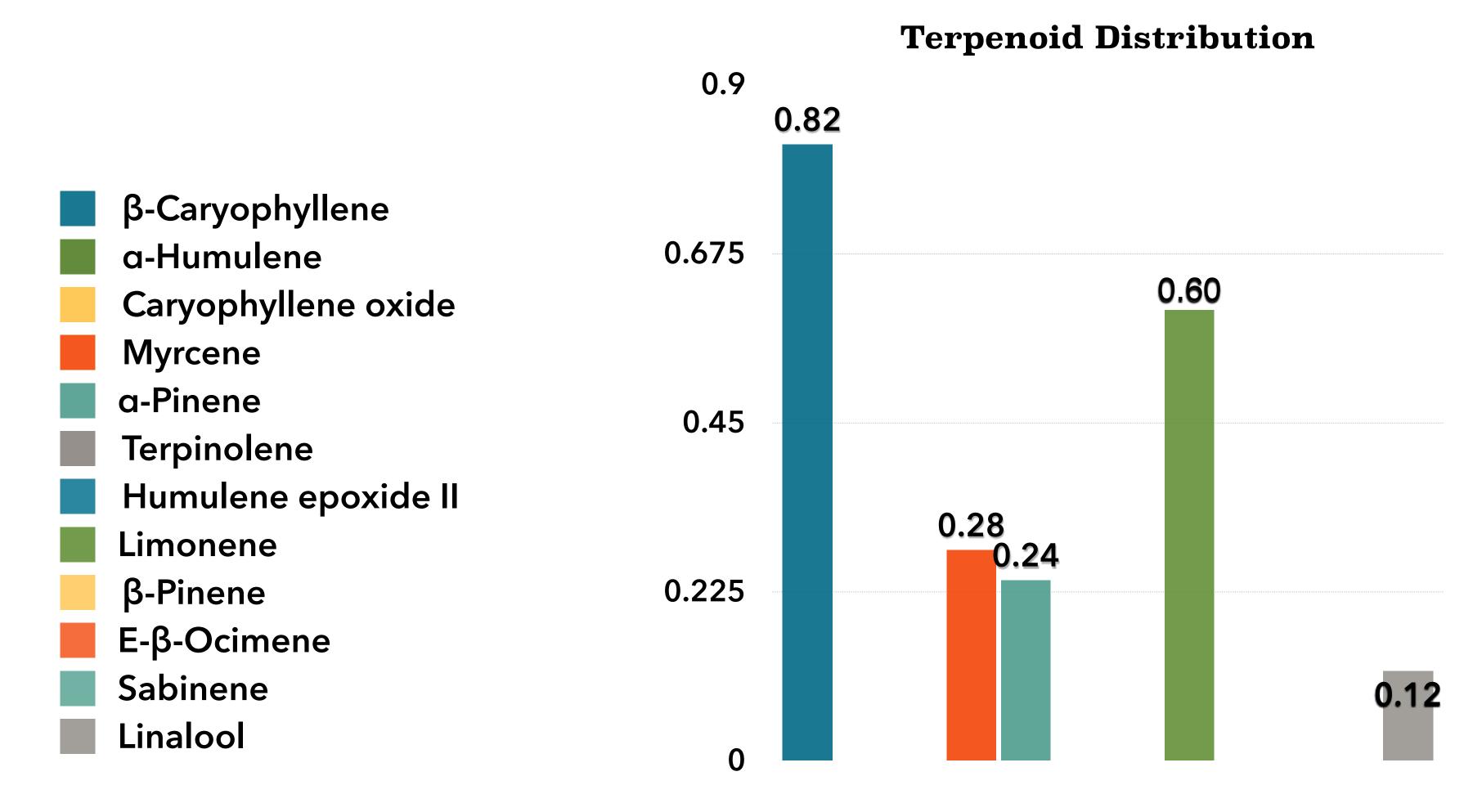
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Total CBD+CBDA 20.32% Terpenoid Profile:

Component	Amount %	pA] 45 -		5.005							
B-Caryophyllene	0.82		- 3.878								
a-Humulene	<0.01	40 -		5.324							
Caryophyllene oxide	<0.01		3.942								
Myrcene	0.28	35 -									
a-Pinene	0.24	1									
Terpinolene	<0.01	30 -									
Humulene epoxide II	<0.01	1					3464				
Limonene	0.60	25 -				60	F 			F 90 m	
3-Pinene	<0.01				7.717 8.464			15.623		18.781 19.788 20.215	
	<0.01	~			I . Î Î			- d.	1.1.1		





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5

Amount (%) Mass of Mycotoxins

0

Α

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Total CBD+CBDA 20.32% Microbial Profile:

Component		Results
Listeria m.	1 g	Not Detected
Escherichia c.	1 g	Not Detected
Salmonella	25 g	Not Detected
Yeast	1 g	<1 x 10 ²
Mould	1 g	<1 x 10 ²

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

NO MYCOTOXINS RESIDUES TO DISPLAY

B2

B1

G1

G2

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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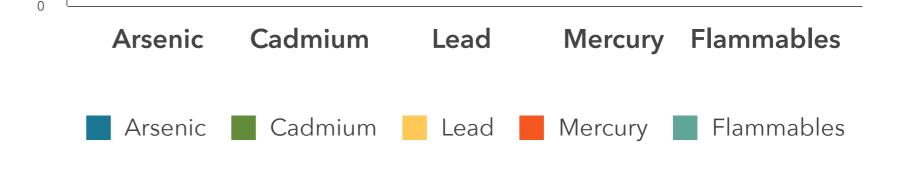
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Total CBD+CBDA 20.32% Heavy Metals Profile:

All Heavy Metals at Non Detectable (ND) levels

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



Conclusions:

No heavy metal residues detected.

No flammable residues detected.

No chemical residues detected.

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31-May 2017
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Our laboratory analysis is standardized after following

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

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, CBD-A can be converted to active CBD using the formula: CBD-A x 0.877 = CBD. In this

case, the Max CBD for the sample is: Max CBD (%) = (%CBD-A \times 0.877) + %CBD. The same calculation assay is valid for THC-A. 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 (4:1) was done in 30 min. The flow rate was maintained at 0.8 ml/min. The cannabinoids CBD, CBG and THC were monitored at 225 and CBDA, CBGA and THC-A were monitored at 300 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.

Sample preparation for HPLC analysis

0.01 g (\pm .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, 0.25 mm ID column.

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