



PharmLabs San Diego Certificate of Analysis

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Sample **Pharma Hemp 1100 mg**

Sample ID SD181012-007 (28123)	Matrix Tincture (Other Cannabis Product)	Batch ID 09211801
Tested for MathCo Health Corp		
Sampled -	Received Jul 11, 2019	Reported Jul 18, 2019
Analyses executed CAN, TER, MIBNIG, PES	Unit Volume (mL) 30.0	Density (g/mL) 1.0

*CAN - Cannabinoid Profile Analysis

Analyzed **Jul 15, 2019** | Instrument **HPLC** | Method **M-004, SOP-009, SOP-015, SOP-019**

Analyte	LOD ppm	LOQ ppm	Result %	Result mg/mL	Result mg/Unit
Cannabidiolic Acid (CBDA)	0.01	0.02	0.03	0.25	7.50
Cannabigerol (CBG)	0.03	0.09	0.05	0.49	14.70
Cannabidiol (CBD)	0.01	0.04	3.69	36.90	1107.00
Cannabinol (CBN)	0.03	0.1	0.02	0.16	4.80
Tetrahydrocannabinol (THC)	0.04	0.15	0.08	0.84	25.20
Tetrahydrocannabinolic Acid (THCA)	0.03	0.11	0.00	0.01	0.30
Total THC (THCa * 0.877 + THC)			0.09	0.85	25.46
Total CBD (CBDA * 0.877 + CBD)			3.71	37.12	1113.58

MIBNIG - Microbial Testing Analysis

Analyzed **July 17, 2019** | Instrument **Plating and ELISA Reader** | Method **SOP-004 & SOP-011**

Analyte	Result CFU/g	Limit	Analyte	Result CFU/g	Limit
Shiga toxin-producing Escherichia Coli	Negative	ND per 1 gram	Salmonella spp.	Negative	ND per 1 gram

PES - Pesticides Screening Analysis

Analyzed **Jul 17, 2019** | Instrument **LC/MSMS GC/MSD** | Method

Analyte	LOD ug/g	LOQ ug/g	Result ug/g	Limit ug/g	Analyte	LOD ug/g	LOQ ug/g	Result ug/g	Limit ug/g
Aldicarb	0.025	0.1	ND	0.025	Carbofuran	0.025	0.1	ND	0.025
Dimethoate	0.025	0.1	ND	0.025	Etofenprox	0.025	0.1	ND	0.025
Fenoxycarb	0.025	0.1	ND	0.025	Thiacloprid	0.025	0.1	ND	0.025
Daminozide	0.025	0.1	ND	0.025	Dichlorvos	0.025	0.1	ND	0.025
Imazalil	0.025	0.1	ND	0.025	Methiocarb	0.025	0.1	ND	0.025
Spiroxamine	0.025	0.1	ND	0.025	Coumaphos	0.025	0.1	ND	0.025
Fipronil	0.025	0.1	ND	0.025	Paclobutrazol	0.025	0.1	ND	0.025
Chlorpyrifos	0.025	0.1	ND	0.025	Ethoprophos (Prophos)	0.025	0.1	ND	0.025
Baygon (Propoxur)	0.025	0.1	ND	0.025	Chlordane	0.025	0.1	ND	0.025
Chlorfenapyr	0.025	0.1	ND	0.025	Methyl Parathion	0.025	0.1	ND	0.025
Mevinphos	0.025	0.1	ND	0.025	Abamectin	0.025	0.05	ND	0.3
Acephate	0.025	0.05	ND	5	Acetamiprid	0.025	0.05	ND	5
Azoxystrobin	0.025	0.05	ND	40	Bifenazate	0.025	0.05	ND	5
Bifenthrin	0.025	0.05	ND	0.5	Boscalid	0.025	0.05	ND	10
Carbaryl	0.025	0.05	ND	0.5	Chlorantraniliprole	0.025	0.05	ND	40
Clofentezine	0.025	0.05	ND	0.5	Diazinon	0.025	0.05	ND	0.2
Dimethomorph	0.025	0.05	ND	20	Etoxazole	0.025	0.05	ND	1.5
Fenpyroximate	0.025	0.05	ND	2	Fonicamid	0.025	0.05	ND	2
Fludioxonil	0.025	0.05	ND	30	Hexythiazox	0.025	0.05	ND	2
Imidacloprid	0.025	0.05	ND	3	Kresoxim-methyl	0.025	0.05	ND	1
Malathion	0.025	0.05	ND	5	Metalaxyl	0.025	0.05	ND	15

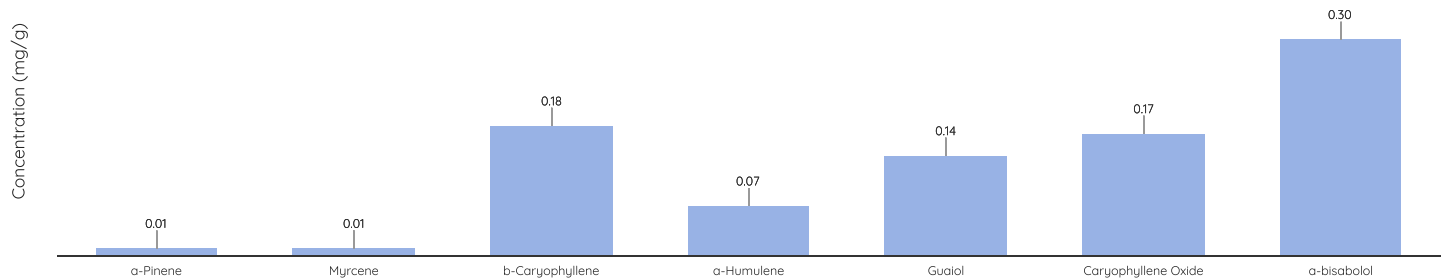
Methomyl	0.025	0.05	ND	0.1	Myclobutanil	0.025	0.05	ND	9
Naled	0.025	0.05	ND	0.5	Oxamyl	0.025	0.05	ND	0.2
Permethrin	0.025	0.05	ND	20	Phosmet	0.025	0.05	ND	0.2
Piperonyl Butoxide	0.025	0.05	ND	8	Propiconazole	0.025	0.05	ND	20
Prallethrin	0.025	0.05	ND	0.4	Pyrethrin	0.025	0.05	ND	1
Pyridaben	0.025	0.05	ND	3	Spinosad A	0.025	0.05	ND	3
Spinosad D	0.025	0.05	ND	3	Spiromesifen	0.025	0.05	ND	12
Spirotetramat	0.025	0.05	ND	13	Tebuconazole	0.025	0.05	ND	2
Thiamethoxam	0.025	0.05	ND	4.5	Trifloxystrobin	0.025	0.05	ND	30
Acequinocyl	0.025	0.05	ND	4	Captan	0.025	0.05	ND	5
Cypermethrin	0.025	0.05	ND	1	Cyfluthrin	0.025	0.05	ND	1
Fenhexamid	0.025	0.05	ND	10	Spinetoram JL	0.025	0.05	ND	3
Pentachloronitrobenzene	0.025	0.05	ND	0.2					

TER - Terpenes Testing Analysis

Analyzed **Jul 17, 2019** | Instrument **GC/FID with Headspace Analyzer** | Method **M-003, SOP-017, SOP-014, SOP-021**

Analyte	(%)	(mg/g)	Analyte	(%)	(mg/g)
α -Pinene (α -Pin)	0.00	0.01	Camphene (Cam)	ND	ND
Myrcene (Myr)	0.00	0.01	b-Pinene (b-Pin)	ND	ND
3-Carene (3-Car)	ND	ND	α -Terpinene (α -Ter)	ND	ND
α -Ocimene (α -Oci)	ND	ND	Limonene (Lim)	ND	ND
p-Cymene (p-Cym)	ND	ND	b-Ocimene (b-Oci)	ND	ND
Eucalyptol (Euc)	ND	ND	g-Terpinene (g-Ter)	ND	ND
Terpenolene (Terp)	ND	ND	Linalool (Lin)	ND	ND
Isopulegol (Isop)	ND	ND	Geraniol (Gera)	ND	ND
b-Caryophyllene (b-Cary)	0.02	0.18	α -Humulene (Hum)	0.01	0.07
cis-Nerolidol (ci-Ner)	ND	ND	trans-Nerolidol (tr-Ner)	ND	ND
Guaiol (Gua)	0.01	0.14	Caryophyllene Oxide (CarOx)	0.02	0.17
α -bisabolol (α -Bbis)	0.03	0.30			
Total Terpene Concentration				0.09 %	0.88 mg/g

Terpene Testing - Visualization



NT Not Reported
ND Not Detected
LOD Limit of Detection
LOQ Limit of Quantification
<LOQ Detected
>ULOL Above upper limit of linearity
CFU/g Colony Forming Units per 1 gram
TNTC Too Numerous to Count



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Scan the QR code to verify authenticity.

Authorized Signature

Melissa Nutter

Melissa Nutter - Lab Director
 Thur, 18 July 2019 09:50:48 -0700

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