



PharmLabs San Diego Certificate of Analysis

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Sample **PharmaHemp CBD 80% Distillate**

Sample ID SD190211-001 (33676)	Matrix Concentrate (Inhalable Cannabis Product)	Batch ID 11019
Tested for MathCo Health Corp		
Sampled -	Received Jul 16, 2019	Reported Jul 19, 2019
Analyses executed CAN, TER, RES, PES		

*CAN - Cannabinoid Profile Analysis

Analyzed **Jul 17, 2019** | Instrument **HPLC** | Method **M-004, SOP-009, SOP-015, SOP-019**

Analyte	LOD ppm	LOQ ppm	Result %	Result mg/g
Cannabidiolic Acid (CBDA)	0.01	0.02	ND	ND
Cannabigerol (CBG)	0.03	0.09	1.46	14.61
Cannabidiol (CBD)	0.01	0.04	93.69	936.90
Cannabinol (CBN)	0.03	0.1	ND	ND
Tetrahydrocannabinol (THC)	0.04	0.15	3.76	37.63
Tetrahydrocannabinolic Acid (THCA)	0.03	0.11	ND	ND
Total THC (THCa * 0.877 + THC)			3.76	37.63
Total CBD (CBDA * 0.877 + CBD)			93.69	936.90

PES - Pesticides Screening Analysis

Analyzed **Jul 16, 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	0.1
Acephate	0.025	0.05	ND	0.1	Acetamiprid	0.025	0.05	ND	0.1
Azoxystrobin	0.025	0.05	ND	0.1	Bifenazate	0.025	0.05	ND	0.1
Bifenthrin	0.025	0.05	ND	3	Boscalid	0.025	0.05	ND	0.1
Carbaryl	0.025	0.05	ND	0.5	Chlorantraniliprole	0.025	0.05	ND	10
Clofentezine	0.025	0.05	ND	0.1	Diazinon	0.025	0.05	ND	0.1
Dimethomorph	0.025	0.05	ND	2	Etoxazole	0.025	0.05	ND	0.1
Fenpyroximate	0.025	0.05	ND	0.1	Fonicamid	0.025	0.05	ND	0.1
Fludioxonil	0.025	0.05	ND	0.1	Hexythiazox	0.025	0.05	ND	0.1
Imidacloprid	0.025	0.05	ND	5	Kresoxim-methyl	0.025	0.05	ND	0.1
Malathion	0.025	0.05	ND	0.5	Metaxalyl	0.025	0.05	ND	2
Methomyl	0.025	0.05	ND	1	Myclobutanil	0.025	0.05	ND	0.1
Naled	0.025	0.05	ND	0.1	Oxamyl	0.025	0.05	ND	0.5
Permethrin	0.025	0.05	ND	0.5	Phosmet	0.025	0.05	ND	0.1
Piperonyl Butoxide	0.025	0.05	ND	3	Propiconazole	0.025	0.05	ND	0.1
Prallethrin	0.025	0.05	ND	0.1	Pyrethrin	0.025	0.05	ND	0.5

Pyridaben	0.025	0.05	ND	0.1	Spinosad A	0.025	0.05	ND	0.1
Spinosad D	0.025	0.05	ND	0.1	Spiromesifen	0.025	0.05	ND	0.1
Spirotetramat	0.025	0.05	ND	0.1	Tebuconazole	0.025	0.05	ND	0.1
Thiamethoxam	0.025	0.05	ND	5	Trifloxystrobin	0.025	0.05	ND	0.1
Acequinocyl	0.025	0.05	ND	0.1	Captan	0.025	0.05	ND	0.7
Cypermethrin	0.025	0.05	ND	1	Cyfluthrin	0.025	0.05	ND	2
Fenhexamid	0.025	0.05	ND	0.1	Spinetoram J.L	0.025	0.05	ND	0.1
Pentachloronitrobenzene	0.025	0.05	ND	0.1					

RES - Residual Solvents Testing Analysis

Analyzed **Jul 17, 2019** | Instrument **GC/FID with Headspace Analyzer** | Method **M-002, SOP-013, SOP-018, SOP-02**

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
Propane (Prop)	0.2	0.5	ND	5000	Butane (But)	0.2	0.5	ND	5000
Methanol (Metha)	0.2	0.5	ND	3000	Ethylene Oxide (EthOx)	0.2	0.5	ND	1
Pentane (Pen)	0.2	0.5	3.4	5000	Ethanol (Ethan)	0.2	0.5	4.8	5000
Ethyl Ether (EthEt)	0.2	0.5	ND	5000	Acetone (Acet)	0.2	0.5	ND	5000
Isopropanol (2-Pro)	0.2	0.5	ND	5000	Acetonitrile (Acetonit)	0.2	0.5	ND	410
Methylene Chloride (MetCh)	0.2	0.5	ND	1	Hexane (Hex)	0.2	0.5	ND	290
Ethyl Acetate (EthAc)	0.2	0.5	ND	5000	Chloroform (Clo)	0.2	0.5	ND	1
Benzene (Ben)	0.2	0.5	ND	1	1-2-Dichloroethane (12-Dich)	0.2	0.5	ND	1
Heptane (Hep)	0.2	0.5	ND	5000	Trichloroethylene (TriClEth)	0.2	0.5	ND	1
Toluene (Toluene)	0.2	0.5	ND	890	M,P-Xylene (mp-xyl)			ND	2170
O-Xylene (o-xyl)			ND	2170	Isobutane (Isob)			ND	5000

*The limit of 2170 ug/g for M,P-Xylene (mp-xyl) and O-Xylene (o-xyl) is to be intended as the two analytes combined.

TER - Terpenes Testing Analysis

Analyzed **Jul 18, 2019** | Instrument **GC/FID with Headspace Analyzer** | Method **M-003, SOP-017, SOP-014, SOP-021**

Analyte	(%)	(mg/g)	Analyte	(%)	(mg/g)
a-Pinene (a-Pin)	ND	ND	Camphene (Cam)	ND	ND
Myrcene (Myr)	ND	ND	b-Pinene (b-Pin)	ND	ND
3-Carene (3-Car)	ND	ND	a-Terpinene (a-Ter)	ND	ND
a-Ocimene (a-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)	0.00	0.01	a-Humulene (Hum)	ND	ND
cis-Nerolidol (ci-Ner)	ND	ND	trans-Nerolidol (tr-Ner)	ND	ND
Guaiol (Gua)	ND	ND	Caryophyllene Oxide (CarOx)	ND	ND
a-bisabolol (a-Bbis)	0.00	0.02			
Total Terpene Concentration				0.00 %	0.03 mg/g

Terpene Testing - Visualization

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



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PJLA
Testing

Accreditation #85368

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Authorized Signature

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Fri, 19 Jul 2019 22:45:04 -0800

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