



PharmLabs San Diego Certificate of Analysis

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Sample **17% Decarb Oil**

Sample ID SD181012-021 (30724)	Matrix Concentrate (Inhalable Cannabis Product)	Batch ID 12191706
Tested for MathCo Health Corp		
Sampled -	Received Jul 12, 2019	Reported Jul 23, 2019
Analyses executed CAN, TER, RES, MIBNIG, PES		

*CAN - Cannabinoid Profile Analysis

Analyzed **Jul 16, 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	0.62	6.21
Cannabigerol (CBG)	0.03	0.09	0.13	1.32
Cannabidiol (CBD)	0.01	0.04	17.38	173.78
Cannabinol (CBN)	0.03	0.1	ND	ND
Tetrahydrocannabinol (THC)	0.04	0.15	ND	ND
Tetrahydrocannabinolic Acid (THCA)	0.03	0.11	ND	ND
Total THC (THCa * 0.877 + THC)			0.00	0.00
Total CBD (CBDA * 0.877 + CBD)			17.92	179.23

MIBNIG - Microbial Testing Analysis

Analyzed **Jul 22, 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 18, 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	Metalaxyl	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 23, 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	0.6	5000
Methanol (Metho)	0.2	0.5	35.5	3000	Ethylene Oxide (EthOx)	0.2	0.5	ND	1
Pentane (Pen)	0.2	0.5	2.7	5000	Ethanol (Ethan)	0.2	0.5	348.9	5000
Ethyl Ether (EthEt)	0.2	0.5	7.9	5000	Acetone (Acet)	0.2	0.5	97.2	5000
Isopropanol (2-Pro)	0.2	0.5	46.1	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	27.9	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	5.5	890	M,P-Xylene (mp-xyl)			NT	2170
O-Xylene (o-xyl)			NT	2170	O,M,P-Xylene (omp-xyl)	0.2	0.5	ND	**

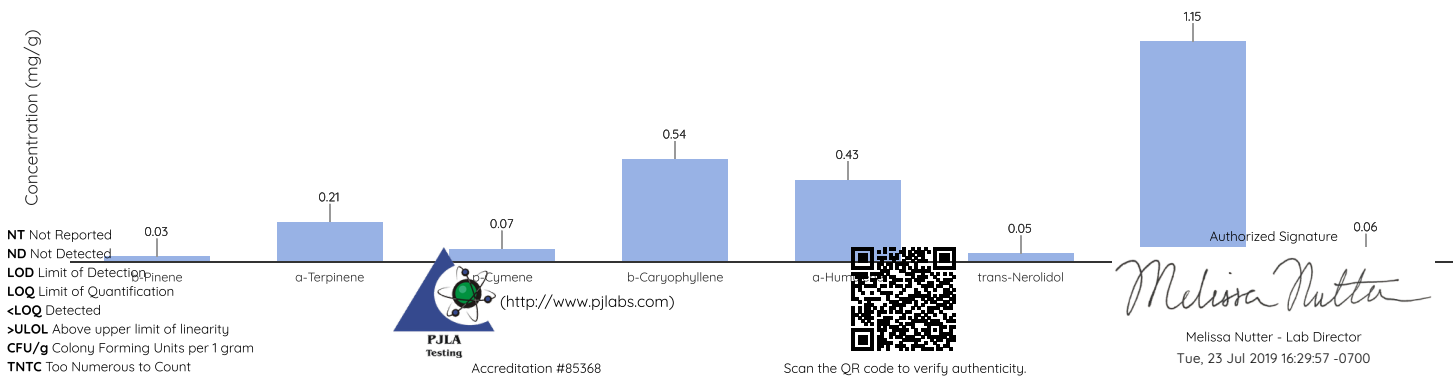
*The limit of 2170 ug/g for M,P-Xylene (mp-xyl) and O-Xylene (o-xyl) is to be intended as the two analytes combined.

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)
α-Pinene (α-Pin)	ND	ND	Camphene (Cam)	ND	ND
Myrcene (Myr)	ND	ND	b-Pinene (b-Pin)	0.00	0.03
3-Carene (3-Car)	ND	ND	α-Terpinene (α-Ter)	0.02	0.21
α-OCimene (α-Oci)	ND	ND	Limonene (Lim)	ND	ND
p-Cymene (p-Cym)	0.01	0.07	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)	0.05	0.54	α-Humulene (Hum)	0.04	0.43
cis-Nerolidol (ci-Ner)	ND	ND	trans-Nerolidol (tr-Ner)	0.01	0.05
Guaiol (Gua)	ND	ND	Caryophyllene Oxide (CarOx)	0.11	1.15
α-bisabolol (α-Bbis)	0.01	0.06			
Total Terpene Concentration				0.25 %	2.54 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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Authorized Signature

 Melissa Nutter - Lab Director
 Tue, 23 Jul 2019 16:29:57 -0700

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