



PharmLabs San Diego Certificate of Analysis QA

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Sample **25% Gold Oil Batch**

Sample ID SD181012-022 (30709)	Matrix Concentrate (Inhalable Cannabis Product)	Sample Size	Batch Size	Batch ID
Tested for MathCo Health Corp				
Sampled -	Received Oct 12, 2019	Reported Oct 23, 2019		
Analyses executed CAN, TER, RES, MICCP, PES				

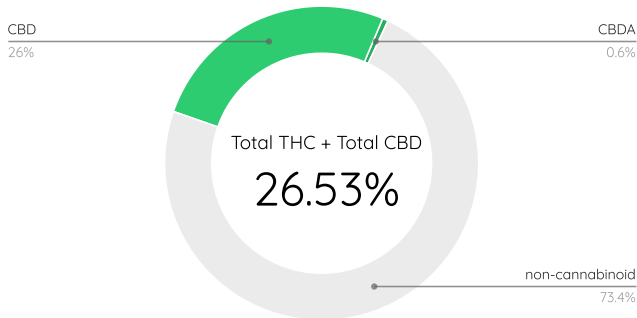
CAN - Cannabinoid Profile Analysis

Analyzed **Oct 16, 2019** | Instrument **HPLC** | Method **M-004, SOP-009, SOP-015, SOP-019**

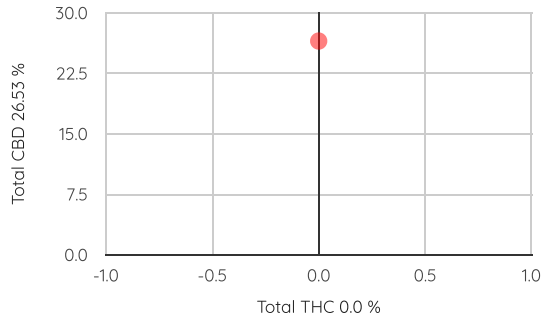
Analyte	LOD ppm	LOQ ppm	Result %	Result mg/g
Tetrahydrocannabinol (THC)	0.04	0.15	ND	ND
Tetrahydrocannabinolic Acid (THCA)	0.03	0.11	ND	ND
Cannabidiol (CBD)	0.01	0.04	26.01	260.10
Cannabidiolic Acid (CBDA)	0.01	0.02	0.59	5.89
Cannabinol (CBN)	0.03	0.1	ND	ND
Cannabigerol (CBG)	0.03	0.09	ND	ND
Total THC (THCA * 0.877 + THC)			0.00	0.00
Total CBD (CBDA * 0.877 + CBD)			26.53	265.27

Cannabinoid Profile Visualization

Breakdown of the main cannabinoids quantified.



THC:CBD ratio quantified in sample



MICCP - Microbial Testing Analysis

Analyzed **Oct 22, 2019** | Instrument **Plating and ELISA Reader** | Method **SOP-004 & SOP-011**

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

PES - Pesticides Screening Analysis

Analyzed **Oct 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	Carbofuran	0.025	0.1	ND	0
Dimethoate	0.025	0.1	ND	0	Etofenprox	0.025	0.1	ND	0
Fenoxycarb	0.025	0.1	ND	0	Thiacloprid	0.025	0.1	ND	0
Daminozide	0.025	0.1	ND	0	Dichlorvos	0.025	0.1	ND	0
Imazalil	0.025	0.1	ND	0	Methiocarb	0.025	0.1	ND	0
Spiroxamine	0.025	0.1	ND	0	Coumaphos	0.025	0.1	ND	0
Fipronil	0.025	0.1	ND	0	Paclobutrazol	0.025	0.1	ND	0

Chlorpyrifos	0.025	0.1	ND	0	Ethoprophos (Prophos)	0.025	0.1	ND	0
Baygon (Propoxur)	0.025	0.1	ND	0	Chlordane	0.025	0.1	ND	0
Chlorfenapyr	0.025	0.1	ND	0	Methyl Parathion	0.025	0.1	ND	0
Mevinphos	0.025	0.1	ND	0	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
Clofentazine	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 **Oct 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	Ethylene Oxide (EthOx)	0.2	0.5	ND	0
Butane (But)	0.2	0.5	18.8	5000	Methanol (Metha)	0.2	0.5	28.4	400
Pentane (Pen)	0.2	0.5	69.0	5000	Ethanol (Ethan)	0.2	0.5	123.4	5000
Ethyl Ether (EthEt)	0.2	0.5	22.7	5000	Acetone (Acet)	0.2	0.5	167.9	3100
Isopropanol (2-Pro)	0.2	0.5	14.0	320	Acetonitrile (Acetonit)	0.2	0.5	ND	6
Methylene Chloride (MetCh)	0.2	0.5	ND	0	Hexane (Hex)	0.2	0.5	ND	70
Ethyl Acetate (EthAc)	0.2	0.5	ND	5000	Chloroform (Clo)	0.2	0.5	ND	0
Benzene (Ben)	0.2	0.5	ND	0	1-2-Dichloroethane (12-Dich)	0.2	0.5	ND	0
Heptane (Hep)	0.2	0.5	ND	5000	Trichloroethylene (TriClEth)	0.2	0.5	ND	0
Toluene (Toluene)	0.2	0.5	12.2	30	O,M,P-Xylene (tot-xyl)	0.2	0.5	ND	10

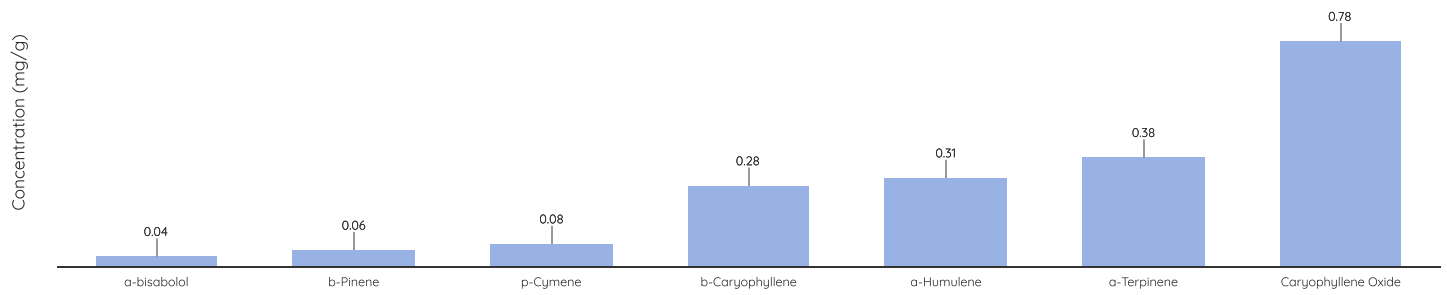
TER - Terpenes Testing Analysis

Analyzed **Oct 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	β-Pinene (β-Pin)	0.01	0.06
3-Carene (3-Car)	ND	ND	α-Terpinene (α-Ter)	0.04	0.38
α-Ocimene (α-Oci)	ND	ND	Limonene (Lim)	ND	ND
p-Cymene (p-Cym)	0.01	0.08	β-Ocimene (β-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
β-Caryophyllene (β-Cary)	0.03	0.28	α-Humulene (Hum)	0.03	0.31

cis-Nerolidol (ci-Ner)	ND	ND	trans-Nerolidol (tr-Ner)	ND	ND
Guaiol (Gua)	ND	ND	Caryophyllene Oxide (CarOx)	0.08	0.78
α -bisabolol (α -Bbis)	0.00	0.04			
Total Terpene Concentration				0.19 %	1.93 mg/g

Terpene Testing - Visualization



NT Not Tested
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



Accreditation #85368
 (https://www.dropbox.com/s/4ha8tekgq9zj8b/L17-427-1_PharmLabs_San_Diego.pdf?dl=0)



Scan the QR code to verify authenticity.

Authorized Signature

Melissa Nutter - Lab Director
 Tue, 23 Oct 2019 16:29:34 -0700

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