



## PharmLabs San Diego Certificate of Analysis

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 ISO/IEC 17025:2005 Certification L17-427-1 | Accreditation #85368  
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### Sample **Ginger Honey Salve**

Sample ID <b>SD181012-013 (30716)</b>	Matrix <b>Topical (Other Cannabis Product)</b>	Batch ID <b>06281802</b>
Tested for <b>MathCo Health Corp</b>		
Sampled -	Received <b>Jul 12, 2019</b>	Reported <b>Jul 19, 2019</b>
Analyses executed <b>CAN, TER, MIBNIG, PES</b>		

### \*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	Result mg/Unit
Cannabidiolic Acid (CBDA)	0.01	0.02	<b>0.01</b>	<b>0.07</b>	<b>0.07</b>
Cannabigerol (CBG)	0.03	0.09	<b>0.01</b>	<b>0.07</b>	<b>0.07</b>
Cannabidiol (CBD)	0.01	0.04	<b>0.48</b>	<b>4.80</b>	<b>4.80</b>
Cannabinol (CBN)	0.03	0.1	<b>0.00</b>	<b>0.01</b>	<b>0.01</b>
Tetrahydrocannabinol (THC)	0.04	0.15	<b>0.01</b>	<b>0.14</b>	<b>0.14</b>
Tetrahydrocannabinolic Acid (THCA)	0.03	0.11	<b>ND</b>	<b>ND</b>	<b>ND</b>
<b>Total THC (THCa * 0.877 + THC)</b>			<b>0.01</b>	<b>0.14</b>	<b>0.14</b>
<b>Total CBD (CBDA * 0.877 + CBD)</b>			<b>0.49</b>	<b>4.86</b>	<b>4.86</b>

### MIBNIG - Microbial Testing Analysis

Analyzed **Jul 18, 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	<b>Negative</b>	ND per 1 gram	Salmonella spp.	<b>Negative</b>	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	<b>ND</b>	0.025	Carbofuran	0.025	0.1	<b>ND</b>	0.025
Dimethoate	0.025	0.1	<b>ND</b>	0.025	Etofenprox	0.025	0.1	<b>ND</b>	0.025
Fenoxycarb	0.025	0.1	<b>ND</b>	0.025	Thiacloprid	0.025	0.1	<b>ND</b>	0.025
Daminozide	0.025	0.1	<b>ND</b>	0.025	Dichlorvos	0.025	0.1	<b>ND</b>	0.025
Imazalil	0.025	0.1	<b>ND</b>	0.025	Methiocarb	0.025	0.1	<b>ND</b>	0.025
Spiroxamine	0.025	0.1	<b>ND</b>	0.025	Coumaphos	0.025	0.1	<b>ND</b>	0.025
Fipronil	0.025	0.1	<b>ND</b>	0.025	Paclobutrazol	0.025	0.1	<b>ND</b>	0.025
Chlorpyrifos	0.025	0.1	<b>ND</b>	0.025	Ethoprophos (Prophos)	0.025	0.1	<b>ND</b>	0.025
Baygon (Propoxur)	0.025	0.1	<b>ND</b>	0.025	Chlordane	0.025	0.1	<b>ND</b>	0.025
Chlorfenapyr	0.025	0.1	<b>ND</b>	0.025	Methyl Parathion	0.025	0.1	<b>ND</b>	0.025
Mevinphos	0.025	0.1	<b>ND</b>	0.025	Abamectin	0.025	0.05	<b>ND</b>	0.3
Acephate	0.025	0.05	<b>ND</b>	5	Acetamiprid	0.025	0.05	<b>ND</b>	5
Azoxystrobin	0.025	0.05	<b>ND</b>	40	Bifenazate	0.025	0.05	<b>ND</b>	5
Bifenthrin	0.025	0.05	<b>ND</b>	0.5	Boscalid	0.025	0.05	<b>ND</b>	10
Carbaryl	0.025	0.05	<b>ND</b>	0.5	Chlorantraniliprole	0.025	0.05	<b>ND</b>	40
Clofentezine	0.025	0.05	<b>ND</b>	0.5	Diazinon	0.025	0.05	<b>ND</b>	0.2
Dimethomorph	0.025	0.05	<b>ND</b>	20	Etoxazole	0.025	0.05	<b>ND</b>	1.5
Fenpyroximate	0.025	0.05	<b>ND</b>	2	Fonicamid	0.025	0.05	<b>ND</b>	2
Fludioxonil	0.025	0.05	<b>ND</b>	30	Hexythiazox	0.025	0.05	<b>ND</b>	2
Imidacloprid	0.025	0.05	<b>ND</b>	3	Kresoxim-methyl	0.025	0.05	<b>ND</b>	1
Malathion	0.025	0.05	<b>ND</b>	5	Metalaxyl	0.025	0.05	<b>ND</b>	15

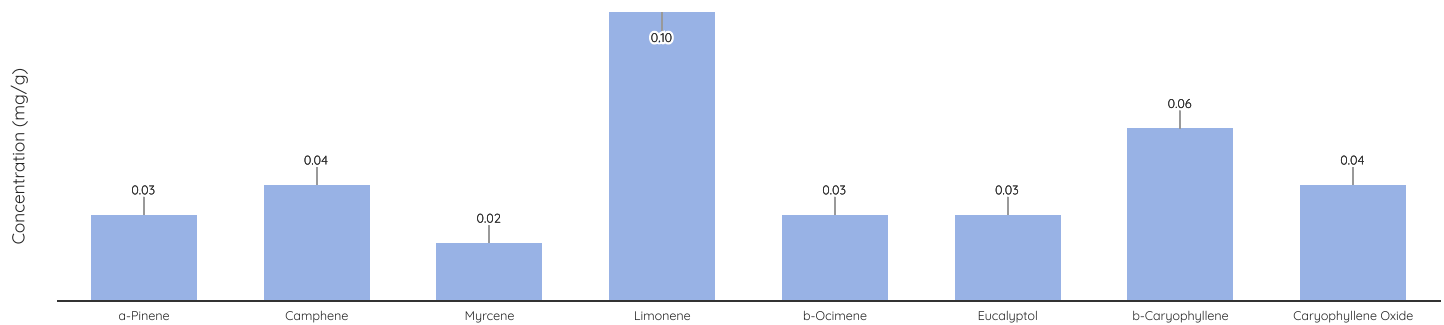
Methomyl	0.025	0.05	ND	0.1	Myclobutanil	0.025	0.05	ND	9
Naled	0.025	0.05	ND	0.5	Oxamyl	0.025	0.05	ND	0.2
Permethrin	0.025	0.05	ND	20	Phosmet	0.025	0.05	ND	0.2
Piperonyl Butoxide	0.025	0.05	ND	8	Propiconazole	0.025	0.05	ND	20
Prallethrin	0.025	0.05	ND	0.4	Pyrethrin	0.025	0.05	ND	1
Pyridaben	0.025	0.05	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 18, 2019** | Instrument **GC/FID with Headspace Analyzer** | Method **M-003, SOP-017, SOP-014, SOP-021**

Analyte	(%)	(mg/g)	Analyte	(%)	(mg/g)
$\alpha$ -Pinene ( $\alpha$ -Pin)	0.00	0.03	Camphene (Cam)	0.00	0.04
Myrcene (Myr)	0.00	0.02	b-Pinene (b-Pin)	ND	ND
3-Carene (3-Car)	ND	ND	$\alpha$ -Terpinene ( $\alpha$ -Ter)	ND	ND
$\alpha$ -Ocimene ( $\alpha$ -Oci)	ND	ND	Limonene (Lim)	0.01	0.10
p-Cymene (p-Cym)	ND	ND	b-Ocimene (b-Oci)	0.00	0.03
Eucalyptol (Euc)	0.00	0.03	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)	0.01	0.06	$\alpha$ -Humulene (Hum)	ND	ND
cis-Nerolidol (ci-Ner)	ND	ND	trans-Nerolidol (tr-Ner)	ND	ND
Guaiol (Gua)	ND	ND	Caryophyllene Oxide (CarOx)	0.00	0.04
$\alpha$ -bisabolol ( $\alpha$ -Bbis)	ND	ND			
<b>Total Terpene Concentration</b>				<b>0.03 %</b>	<b>0.35 mg/g</b>

## 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*

Melissa Nutter - Lab Director  
 Fri, 19 Jul 2019 15:33:56 -0700

PharmLabs San Diego | 3421 Hancock St, Second Floor, San Diego, CA 92110 | 619.356.0898 | ISO/IEC 17025:2005 Certification L17-427-1

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