

# PharmLabs San Diego Certificate of Analysis QA

3421 Hancock St, Second Floor, San Diego, CA 92110 | License: C8-17-0000008-TEMP  
ISO/IEC 17025:2005 Certification L17-427-1 | Accreditation #85368



Sample **CRUDE102218**

Sample ID	SD181023-007 (32876)	Matrix	Concentrate (Inhalable Cannabis Product)	Sample Size	Batch Size	Batch ID
Tested for	Irie CBD					
Sampled	-	Received	Oct 23, 2018	Reported	Oct 30, 2018	
Analyses executed	CAN, TER, RES, MICCP, PES					

## CAN - Cannabinoid Profile Analysis

Analyzed Oct 25, 2018 | 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	2.50	25.00
Tetrahydrocannabinolic Acid (THCA)	0.03	0.11	ND	ND
Cannabidiol (CBD)	0.01	0.04	71.20	712.00
Cannabidiolic Acid (CBDA)	0.01	0.02	2.11	21.10
Cannabinol (CBN)	0.03	0.1	ND	ND
Cannabigerol (CBG)	0.03	0.09	0.88	8.80
<b>Total THC (THCa * 0.877 + THC)</b>			<b>2.50</b>	<b>25.00</b>
<b>Total CBD (CBDA * 0.877 + CBD)</b>			<b>73.05</b>	<b>730.50</b>

## MICCP - Microbial Testing Analysis

Analyzed Oct 26, 2018 | 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

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



Scan the QR code to verify authenticity.

Authorized Signature

*Melissa Nutter*

Melissa Nutter - Lab Director  
Tue, 30 Oct 2018 11:39:45 -0700

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

\*This report shall not be reproduced except in full, without the written approval of the lab. This report is for informational purposes only and should not be used to diagnose, treat or prevent any disease. Results are only for samples and batches indicated. Results are reported on an "as received" basis, unless indicated otherwise.

# PES - Pesticides Screening Analysis

Analyzed Oct 30, 2018 | 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	Paclbutrazol	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	<LOQ	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	Etoazole	0.025	0.05	ND	0.1
Fenpyroximate	0.025	0.05	ND	0.1	Flonicamid	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					

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



Scan the QR code to  
verify authenticity.

Authorized Signature

*Melissa Nutter*

Melissa Nutter - Lab Director  
 Tue, 30 Oct 2018 11:39:45 -0700

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

\*This report shall not be reproduced except in full, without the written approval of the lab. This report is for informational purposes only and should not be used to diagnose, treat or prevent any disease. Results are only for samples and batches indicated. Results are reported on an "as received" basis, unless indicated otherwise.

## RES - Residual Solvents Testing Analysis

Analyzed Oct 26, 2018 | 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	26.6	5000	Ethylene Oxide (EthOx)	0.2	0.5	ND	0
Butane (But)	0.2	0.5	ND	5000	Methanol (Metha)	0.2	0.5	ND	400
Pentane (Pen)	0.2	0.5	ND	5000	Ethanol (Ethan)	0.2	0.5	ND	5000
Ethyl Ether (EthEt)	0.2	0.5	ND	5000	Acetone (Acet)	0.2	0.5	93.7	3100
Isopropanol (2-Pro)	0.2	0.5	397.6	320	Acetonitrile (Acetonit)	0.2	0.5	ND	6
Methylene Chloride (MetCh)	0.2	0.5	ND	0	Hexane (Hex)	0.2	0.5	2.3	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	ND	30	O,M,P-Xylene (tot-xyl)	0.2	0.5	ND	10

## TER - Terpenes Testing Analysis

Analyzed Oct 25, 2018 | 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)	0.06	0.64	Camphene (Cam)	0.01	0.06
Myrcene (Myr)	0.43	4.30	b-Pinene (b-Pin)	0.03	0.32
3-Carene (3-Car)	0.00	0.04	a-Terpinene (a-Ter)	0.01	0.07
a-Ocimene (a-Oci)	0.00	0.02	Limonene (Lim)	0.12	1.25
p-Cymene (p-Cym)	ND	ND	b-Ocimene (b-Oci)	0.02	0.23
Eucalyptol (Euc)	0.03	0.35	g-Terpinene (g-Ter)	0.01	0.09
Terpenolene (Terp)	0.00	0.04	Linalool (Lin)	0.03	0.30
Isopulegol (Isop)	ND	ND	Geraniol (Gera)	ND	ND
b-Caryophyllene (b-Cary)	1.29	12.87	a-Humulene (Hum)	0.48	4.79
cis-Nerolidol (ci-Ner)	ND	ND	trans-Nerolidol (tr-Ner)	ND	ND
Guaiol (Gua)	0.15	1.54	Caryophyllene Oxide (CarOx)	0.04	0.40
a-bisabolol (a-Bbis)	0.06	0.58			
<b>Total Terpene Concentration</b>				<b>2.79 %</b>	<b>27.89 mg/g</b>

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



Scan the QR code to verify authenticity.

Authorized Signature

*Melissa Nutter*

Melissa Nutter - Lab Director  
 Tue, 30 Oct 2018 11:39:45 -0700

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

\*This report shall not be reproduced except in full, without the written approval of the lab. This report is for informational purposes only and should not be used to diagnose, treat or prevent any disease. Results are only for samples and batches indicated. Results are reported on an "as received" basis, unless indicated otherwise.