

PharmLabs San Diego Certificate of Analysis

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 ISO/IEC 17025:2005 Certification L17-427-1 | Accreditation #85368



Sample **200615-GC**

Sample ID	SD200629-019 (37553)	Matrix	Concentrate
Sampled	-	Received	Oct 23, 2020
		Reported	Oct 27, 2020
Analyses executed	CAN+, TER, RES, MIBIG, MTO, PES, HME		

CAN+ - Cannabinoid Profile Analysis

Analyzed Oct 26, 2020 | Instrument HPLC-VWD | Method SOP-001

Analyte	LOD ppm	LOQ ppm	Result %	Result mg/g
Cannabidiolic Acid (CBDA)	0.01	0.02	ND	ND
Cannabigerol (CBG)	0.03	0.09	ND	ND
Cannabidiol (CBD)	0.01	0.04	ND	ND
Cannabinol (CBN)	0.03	0.1	1.78	17.77
Tetrahydrocannabinol (THC)	0.04	0.15	ND	ND
Tetrahydrocannabinolic Acid (THCA)	0.03	0.11	ND	ND
Cannabigerol Acid (CBGA)	0.03	0.08	ND	ND
Δ8-tetrahydrocannabinol (Δ8-THC)	0.08	0.24	94.54	945.36
Total THC (THCa * 0.877 + THC)			0.00	0.00
Total CBD (CBDA * 0.877 + CBD)			0.00	0.00
Total CBG (CBGA * 0.877 + CBG)			0.00	0.00

HME - Heavy Metals Detection Analysis

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
Arsenic (As)	0.0002	0.05	ND	0.2	Cadmium (Cd)	3.0e-05	0.05	ND	0.2
Mercury (Hg)	1.0e-05	0.01	ND	0.1	Lead (Pb)	1.0e-05	0.125	0.00	0.5

ND Not Detected  
 N/A Not Applicable  
 NT Not Reported  
 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



Authorized Signature  
  
 Dr. Lia Prevedello, Laboratory Director  
 Oct 26, 2020 16:43:42 -0700



## MIBIG - Microbial Testing Analysis

Analyzed Oct, 26 2020 | Instrument qPCR and/or Plating | Method SOP-007

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
Aspergillus fumigatus	Negative	ND per 1 gram	Aspergillus flavus	Negative	ND per 1 gram
Aspergillus niger	Negative	ND per 1 gram	Aspergillus terreus	Negative	ND per 1 gram

## MTO - Mycotoxin Testing Analysis

Analyzed Oct 26, 2020 | Instrument LC/MSMS | Method SOP-004

Analyte	LOD ug/kg	LOQ ug/kg	Result ug/kg (ppb)	Limit ug/kg	Analyte	LOD ug/kg	LOQ ug/kg	Result ug/kg (ppb)	Limit ug/kg
Ochratoxin A	0.78	1.56	ND	20	Aflatoxin B1	0.78	1.56	ND	20
Aflatoxin B2	0.78	1.56	ND	20	Aflatoxin G1	0.78	1.56	ND	20
Aflatoxin G2	0.78	1.56	ND	20	Total Aflatoxins	0.78	1.56	ND	20

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 N/A Not Applicable  
 NT Not Reported  
 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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## PES - Pesticides Screening Analysis

Analyzed Oct 26, 2020 | Instrument LC/MSMS GC/MSMS | Method SOP-003

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	Etoazole	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					

ND Not Detected  
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 Testing  
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## RES - Residual Solvents Testing Analysis

Analyzed Oct 26, 2020 | Instrument GC/FID with Headspace Analyzer | Method SOP-006

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)	0.4	40.0	<LOQ	5000	Butane (But)	0.4	40.0	<LOQ	5000
Methanol (Metha)	0.4	40.0	<LOQ	3000	Ethylene Oxide (EthOx)	0.4	0.8	ND	1
Pentane (Pen)	0.4	40.0	ND	5000	Ethanol (Ethan)	0.4	40.0	ND	5000
Ethyl Ether (EthEt)	0.4	40.0	ND	5000	Acetone (Acet)	0.4	40.0	<LOQ	5000
Isopropanol (2-Pro)	0.4	40.0	<LOQ	5000	Acetonitrile (Acetonit)	0.4	40.0	<LOQ	410
Methylene Chloride (MetCh)	0.4	0.8	ND	1	Hexane (Hex)	0.4	40.0	<LOQ	290
Ethyl Acetate (EthAc)	0.4	40.0	ND	5000	Chloroform (Clo)	0.4	0.8	ND	1
Benzene (Ben)	0.4	0.8	ND	1	1,2-Dichloroethane (1,2-Dich)	0.4	0.8	ND	1
Heptane (Hep)	0.4	40.0	ND	5000	Trichloroethylene (TriClEth)	0.4	40.0	ND	1
Toluene (Toluene)	0.4	40.0	ND	890	M,P-Xylene (mp-xyl)			ND	2170
O-Xylene (o-xyl)			ND	2170					

\*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 Oct 26, 2020 | Instrument GC/FID | Method SOP-002

Analyte	(%)	(mg/g)	Analyte	(%)	(mg/g)
$\alpha$ -Pinene ( $\alpha$ -Pin)	0.06	0.64	Camphene (Cam)	ND	ND
Myrcene (Myr)	0.14	1.39	b-Pinene (b-Pin)	0.07	0.69
3-Carene (3-Car)	ND	ND	$\alpha$ -Terpinene ( $\alpha$ -Ter)	ND	ND
$\alpha$ -Ocimene ( $\alpha$ -Oci)	ND	ND	Limonene (Lim)	0.25	2.53
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)	0.06	0.63	$\alpha$ -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
$\alpha$ -bisabolol ( $\alpha$ -Bbis)	0.18	1.80			
<b>Total Terpene Concentration</b>				<b>0.77 %</b>	<b>7.68 mg/g</b>

ND Not Detected  
 N/A Not Applicable  
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