

PharmLabs San Diego Certificate of Analysis

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ISO/IEC 17025:2017 Certification L17-427-1 | Accreditation #133566



Sample: Pre Heat - Orange Bud

Sample ID: SD221128-036 (54637)      Matrix: Concentrate (Residual Cannabis Seed)  
Tested for: CBG Ester      Received: Nov 28, 2022  
Sampled:      Analyzed: Dec 01, 2022  
Analyses requested: CBG, PEA, HHV, HTH, PEA, HMC, FVI

Labeling Note: The reported concentration of the cannabinoid peak in this sample is 0.35% (currently PharmLabs laboratory cannot confirm an unidentified peak is your chromatogram due to interference from our highly concentrated CB products) from which we believe to be either CBG-T or CBG-LAC. As this one there are no reference standards available for CBG-T or CBG-LAC it is difficult to confirm from the mass (m/z) data. Cannabinoid peak therefore, listed low concentration may have different accuracy using the most advanced instruments and techniques available, the separation of CBG-T and CBG-LAC is problematic for the identify compound, or a whole. Pharmacists between the unidentified peak to be a combination of CBG-T, CBG-LAC, and CBG-LAC, with the majority of the concentration being CBG-TAC. Total (L17-427-1) CBG concentration is estimated to be 21.9%

CANX - Cannabinoids Analysis

Analyzed Dec 01, 2022 | Instrument: HPLC  
Measurement Uncertainty at 95% confidence: 80%

Analyte	LLO mg/g	LOQ mg/g	Result %	Result mg/g
$\Delta^9$ -Tetrahydrocannabinol ( $\Delta^9$ -THC)	0.01	0.04	ND	ND
Cannabinol (CBN)	0.01	0.01	ND	ND
Abundant Cannabinol (a-CBN)	0.01	0.05	ND	ND
$\Delta^8$ -Tetrahydrocannabinol ( $\Delta^8$ -THC)	0.01	0.02	ND	ND
$\Delta^9$ -Tetrahydrocannabinol ( $\Delta^9$ -THC)	0.01	0.01	ND	ND
Cannabinolic Acid (CBNA)	0.01	0.1	ND	ND
Cannabigerol Acid (CBGA)	0.01	0.1	ND	ND
Cannabigerol (CBG)	0.01	0.1	0.32	2.32
Cannabinol (CBN)	0.01	0.1	1.14	8.41
THC-TAC (a-THC)	0.01	0.04	0.36	22.38
THC-TAC (b-THC)	0.01	0.01	0.76	43.59
Tetrahydrocannabinols (THC)	0.01	0.1	ND	ND
$\Delta^8$ -Tetrahydrocannabinol ( $\Delta^8$ -THC)	0.01	0.04	ND	ND
Tetrahydrocannabinol ( $\Delta^9$ -THC)	0.01	0.01	ND	ND
Cannabinol (CBN)	0.01	0.1	ND	ND
Cannabicyclol (CBC)	0.01	0.04	ND	ND
van-THC (van-THC)	0.01	0.1	ND	ND
Tetrahydrocannabinol ( $\Delta^9$ -THC)	0.01	0.1	ND	ND
$\Delta^8$ -Tetrahydrocannabinol ( $\Delta^8$ -THC)	0.01	0.1	0.29	0.29
(a)R)-[5S]-Tetrahydrocannabinol ((a)R)-[5S]	0.01	0.1	ND	ND
Heptylthio cannabinol (S Isomer) (H-THC)	0.01	0.1	ND	ND
(a)R)-[5S]-Tetrahydrocannabinol ((a)R)-[5S]	0.01	0.1	ND	ND
Heptylthio cannabinol (R Isomer) (R-THC)	0.01	0.1	ND	ND
Tetrahydrocannabinolic Acid (THCA)	0.01	0.1	ND	ND
$\Delta^9$ -Tetrahydrocannabinol ( $\Delta^9$ -THC)	0.01	0.01	ND	ND
Cannabinolic Acetate (CBNAc)	0.01	0.04	ND	ND
$\Delta^9$ -Tetrahydrocannabinol ( $\Delta^9$ -THC)	0.01	0.1	1.43	14.26
$\Delta^8$ -Tetrahydrocannabinol ( $\Delta^8$ -THC)	0.01	0.1	ND	ND
$\Delta^8$ -THC-D-isoform (a-THC)	0.01	0.1	ND	ND
THC-THC-D-isoform (b-THC)	0.01	0.01	ND	ND
THC-THC-D-isoform (a-THC)	0.01	0.1	ND	ND
THC-THC-D-isoform (b-THC)	0.01	0.01	ND	ND
THC-THC-D-isoform (a-THC)	0.01	0.01	ND	ND
$\Delta^8$ -THC-D-isoform (a-THC)	0.01	0.1	ND	ND
$\Delta^8$ -THC-D-isoform (b-THC)	0.01	0.01	ND	ND
$\Delta^8$ -THC-D-isoform (a-THC)	0.01	0.01	ND	ND
$\Delta^8$ -THC-D-isoform (b-THC)	0.01	0.01	ND	ND
Total THC (THC) = $\Delta^8$ THC + $\Delta^9$ THC			0.44	4.35
Total THC + $\Delta^8$ THC + $\Delta^9$ THC = $\Delta^8$ THC + THCA + $\Delta^8$ THC + $\Delta^9$ THC + $\Delta^9$ THC + $\Delta^9$ THC			0.79	6.14
Total CBN (CBN) = a-CBN + CBN			1.14	8.41
Total CBG (CBG) = a-CBN + CBN			0.32	2.32
Total HMC (HMC) = H-THC + R-THC			ND	ND
Total Cannabinoids			80.90	619.01

HME - Heavy Metals Detection Analysis

Analyzed Nov 28, 2022 | Instrument: ICP-AES | Method: SDP-005

Analyte	LLO mg/g	LOQ mg/g	Result mg/g	Limit mg/g	Analyte	LLO mg/g	LOQ mg/g	Result mg/g	Limit mg/g
Arsenic (As)	0.0001	0.0005	ND	0.1	Chromium (Cr)	1.0e-05	0.0001	ND	0.1
Mercury (Hg)	1.0e-05	0.0001	ND	0.1	Lead (Pb)	1.0e-05	0.0001	0.01	0.1

MIBIG - Microbial Testing Analysis

Analyzed Dec 01, 2022 | Instrument: qPCR with/PCR | Method: SDP-007

Analyte	Result CFU/g	Limit	Analyte	Result CFU/g	Limit
Single toxin-producing Escherichia coli	ND	ND per 1 gram	Staphylococcus spp.	ND	ND per 1 gram
Aspergillus fumigatus	ND	ND per 1 gram	Aspergillus nidulans	ND	ND per 1 gram
Aspergillus niger	ND	ND per 1 gram	Aspergillus terreus	ND	ND per 1 gram

Q1 Not Detected  
Q2 Not Detected  
Q3 Not Detected  
Q4 Not Detected  
Q5 Not Detected  
Q6 Not Detected  
Q7 Not Detected  
Q8 Not Detected  
Q9 Not Detected  
Q10 Not Detected  
Q11 Not Detected  
Q12 Not Detected  
Q13 Not Detected  
Q14 Not Detected  
Q15 Not Detected  
Q16 Not Detected  
Q17 Not Detected  
Q18 Not Detected  
Q19 Not Detected  
Q20 Not Detected



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Authorized Signature

Brandon Stahl

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MTO - Mycotoxin Testing Analysis

Analysed Nov 29, 2022 | Instrument LC/MSMS | Method SOP-004

Analyte	LOD ng/kg	LOQ ng/kg	Result ng/kg (ppb)	Limit ng/kg	Analyte	LOD ng/kg	LOQ ng/kg	Result ng/kg (ppb)	Limit ng/kg
Ochratoxin A	5.0	20.0	ND	20	Ochratoxin A	2.5	5.0	ND	-
Aflatoxin B1	2.5	5.0	ND	-	Aflatoxin B1	2.5	5.0	ND	-
Aflatoxin G1	2.5	5.0	ND	-	Total Aflatoxins	10.0	20.0	ND	20

Q1 Not Detected  
 M1 Not Detected  
 M2 Not Detected  
 M3 Not Detected  
 LOQ Limit of Detection  
 LQG Limit of Quantitation  
 ND Not Detected  
 ng/kg Above upper limit of detection  
 n/a Not Applicable  
 ppm Parts per million  
 ppb Parts per billion



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Authorized Signature

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PES - Pesticides Screening Analysis

Analyzed Nov 28, 2022 | Instrument LC/MSD GC/MSMS | Method SOP-003

Analyte	LOD ng/g	LOQ ng/g	Result	Limit ng/g	Analyte	LOD ng/g	LOQ ng/g	Result	Limit ng/g
Azinphos	0.0176	0.02	ND	0.0075	Carbofuran	0.01	0.02	ND	0.01
Dimethoate	0.01	0.02	ND	0.01	Diflufenican	0.02	0.1	ND	0.02
Fenoxypic	0.01	0.02	ND	0.01	Fenprophamid	0.01	0.02	ND	0.01
Spinosad	0.01	0.02	ND	0.01	Diflufenican	0.02	0.07	ND	0.02
Insect	0.01	0.01	ND	0.01	Methidathion	0.01	0.01	ND	0.01
Spinosad	0.01	0.02	ND	0.01	Chlorpyrifos	0.01	0.02	ND	0.01
Fipronil	0.01	0.1	ND	0.01	Permethrin	0.01	0.01	ND	0.01
Chlorpyrifos	0.01	0.04	ND	0.01	Dimethoate (Phospho)	0.01	0.01	ND	0.01
Bioglyph (Phospho)	0.01	0.02	ND	0.01	Chlorpyrifos	0.01	0.1	ND	0.04
Chlorpyrifos	0.01	0.1	ND	0.01	Metolachlor	0.01	0.1	ND	0.01
Neomaphos	0.01	0.04	ND	0.01	Acetamiprid	0.01	0.04	ND	0.1
Acetamiprid	0.01	0.01	ND	0.1	Acetamiprid	0.01	0.01	ND	0.1
Acetamiprid	0.01	0.01	ND	0.1	Imidacloprid	0.01	0.01	ND	0.1
Imidacloprid	0.01	0.01	ND	0.1	Imidacloprid	0.01	0.01	ND	0.1
Carbaryl	0.01	0.02	ND	0.1	Chlorantraniliprole	0.01	0.04	ND	0.1
Chlorantraniliprole	0.01	0.01	ND	0.1	Diazinon	0.01	0.02	ND	0.1
Dimethoate	0.01	0.04	ND	0.1	Diazinon	0.01	0.01	ND	0.1
Fenoxypic	0.01	0.01	ND	0.1	Flonicamid	0.01	0.01	ND	0.1
Fenoxypic	0.01	0.1	ND	0.1	Flonicamid	0.01	0.01	ND	0.1
Fipronil	0.01	0.01	ND	0.1	Hexythiazox	0.01	0.01	ND	0.1
Insect	0.01	0.01	ND	0.1	Insect	0.01	0.01	ND	0.1
Neomaphos	0.01	0.01	ND	0.1	Neomaphos	0.01	0.01	ND	0.1
Neomaphos	0.01	0.01	ND	0.1	Permethrin	0.01	0.01	ND	0.1
Permethrin	0.01	0.01	ND	0.1	Permethrin	0.01	0.01	ND	0.1
Pyrethrin	0.01	0.01	ND	0.1	Pyrethrin	0.01	0.01	ND	0.1
Spinosad	0.01	0.01	ND	0.1	Spinosad	0.01	0.01	ND	0.1
Spinosad	0.01	0.01	ND	0.1	Spinosad	0.01	0.01	ND	0.1
Thiamethoxam	0.01	0.01	ND	0.1	Thiamethoxam	0.01	0.01	ND	0.1
Thiamethoxam	0.01	0.01	ND	0.1	Thiamethoxam	0.01	0.01	ND	0.1
Acetamiprid	0.01	0.01	ND	0.1	Acetamiprid	0.01	0.01	ND	0.1
Chlorantraniliprole	0.01	0.1	ND	0.1	Cyfluthrin	0.04	0.1	ND	0.1
Insect	0.01	0.01	ND	0.1	Insect	0.01	0.01	ND	0.1
Permethrin	0.01	0.1	ND	0.1	Permethrin	0.01	0.01	ND	0.1

RES - Residual Solvents Testing Analysis

Analyzed Dec 01, 2022 | Instrument GC/MSD with Headspace Analyser | Method SOP-008

Analyte	LOD ng/g	LOQ ng/g	Result	Limit ng/g	Analyte	LOD ng/g	LOQ ng/g	Result	Limit ng/g
Propane (Fuel)	0.4	40.0	ND	5000.0	Butane (Fuel)	0.4	40.0	ND	5000.0
Hexane (Pharma)	0.4	40.0	ND	3000.0	Ethylene Oxide (Pharma)	0.4	0.4	ND	10
Propane (Fuel)	0.4	40.0	ND	5000.0	Ethanol (Pharma)	0.4	40.0	ND	5000.0
Ethyl Ether (Pharma)	0.4	40.0	ND	5000.0	Acetone (Fuel)	0.4	40.0	ND	5000.0
Isopropanol (2-Prn)	0.4	40.0	ND	5000.0	Acetonitrile (Pharma)	0.4	40.0	ND	470.0
Methylene Chloride (Pharma)	0.4	0.4	ND	10	Heptane (Fuel)	0.4	40.0	ND	250.0
Ethyl Acetate (Pharma)	0.4	40.0	ND	5000.0	Chloroform (Pharma)	0.4	0.4	ND	10
Hexane (Fuel)	0.4	0.4	ND	10	1,2-Dichloroethane (2-DEHE)	0.4	0.4	ND	10
Heptane (Fuel)	0.4	40.0	ND	5000.0	Tetrahydrofuran (THF)	0.4	0.4	ND	10
Toluene (Toluene)	0.4	40.0	ND	800.0	Hydrazine (Fuel)	0.4	40.0	ND	270.0

FVI - Filth & Foreign Material Inspection Analysis

Analyzed Nov 28, 2022 | Instrument Microscope | Method SOP-010

Analyte / Limit	Result	Analyte / Limit	Result
> 1/4 of the total sample area covered by dirt, soil, lint, or dust	ND	> 1/4 of the total sample area covered by mold	ND
> 1 insect fragment, hair, or 1 human mammalian secretions per 1g	ND	> 1/4 of the total sample area covered by an insoluble foreign material	ND

Q1 Not Detected  
 M1 Not Detected  
 M2 Not Detected  
 M3 Not Detected  
 M4 Not Detected  
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 M6 Not Detected  
 M7 Not Detected  
 M8 Not Detected  
 M9 Not Detected  
 M10 Not Detected  
 M11 Not Detected  
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