

PharmLabs San Diego Certificate of Analysis
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ISO/IEC 17025:2017 Acc. L17-427-1 #85368



Sample **Loose Change - Grape Ape**

Sample ID SD240220-012 (91260)	Matrix Concentrate (Inhalable Cannabis Good)
Tested for Calli Extrax	
Sampled -	Received Feb 19, 2025
Analyses executed CANX, RES, MIBIG, MTO, PES, HME, FVI, D9C	Reported Feb 22, 2025

Summary D9C: The total Δ9-THC content in this sample is 0.00%. For the most accurate Δ9-THC concentration, refer to the GC MS/MS section of this COA. This sample was tested using HPLC and GC MS/MS. HPLC analysis can yield inconsistent results for Δ8-THC and Δ9-THC due to isomer interference: GC MS/MS was employed to avoid this issue. Please note, if THCa is present, the Δ9-THC level measured by GC MS/MS might be higher due to decarboxylation.

D9C - D9 Confirmation Analysis

Analyzed **Feb 21, 2025** | Instrument **GC MS/MS** | Method **SOP-D9C**
The expanded Uncertainty of the analysis is approximately ±7.806% at the 95% Confidence Level

Analyte	LOD mg/g	LOQ mg/g	Result %	Result mg/g
Δ9-Tetrahydrocannabinol (Δ9-THC)	0.387	1.174	0.00	0.00

CANX - Cannabinoids Analysis

Analyzed **Feb 21, 2025** | Instrument **HPLC-VWD** | Method **SOP-001** The expanded Uncertainty of the Cannabinoid analysis is approximately ±7.806% at the 95% Confidence Level

Analyte	LOD mg/g	LOQ mg/g	Result %	Result mg/g
11-Hydroxy-Δ8-Tetrahydrocannabinol (11-Hyd-Δ8-THCV)	0.013	0.041	ND	ND
Cannabidiol (CBDO)	0.002	0.007	ND	ND
Abnormal Cannabidiol (a-CBDO)	0.01	0.031	ND	ND
(+/-)-9B-hydroxy-Hexahydrocannabinol (9b-HHC)	0.012	0.036	ND	ND
11-Hydroxy-Δ8-Tetrahydrocannabinol (11-Hyd-Δ8-THC)	0.007	0.021	ND	ND
Cannabidiolic Acid (CBDA)	0.001	0.16	ND	ND
Cannabigerol Acid (CBGA)	0.001	0.16	ND	ND
Cannabigerol (CBG)	0.001	0.16	0.09	0.94
Cannabidiol (CBD)	0.001	0.16	2.38	23.85
γ(S)-THD (s-THD)	0.013	0.041	ND	ND
γ(R)-THD (r-THD)	0.025	0.075	ND	ND
Tetrahydrocannabinol (THCV)	0.001	0.16	0.06	0.63
Δ8-tetrahydrocannabinol (Δ8-THCV)	0.021	0.064	0.58	5.85
Cannabidiol (CBDH)	0.005	0.16	ND	ND
Tetrahydrocannabinol (Δ9-THCB)	0.013	0.038	ND	ND
Cannabinol (CBN)	0.001	0.16	3.65	36.54
Cannabidiol (CBDP)	0.015	0.047	ND	ND
exo-THC (exo-THC)	0.005	0.16	ND	ND
Tetrahydrocannabinol (Δ9-THC)	0.003	0.16	0.63	6.30
Δ8-tetrahydrocannabinol (Δ8-THC)	0.004	0.16	51.38	513.85
(6aR,9S)-Δ10-Tetrahydrocannabinol ((6aR,9S)-Δ10)	0.015	0.16	ND	ND
Hexahydrocannabinol (S Isomer) (9s-HHC)	0.017	0.16	ND	ND
(6aR,9R)-Δ10-Tetrahydrocannabinol ((6aR,9R)-Δ10)	0.007	0.16	ND	ND
Hexahydrocannabinol (R Isomer) (9r-HHC)	0.016	0.16	ND	ND
Tetrahydrocannabinol (THCA)	0.001	0.16	ND	ND
Δ9-Tetrahydrocannabinol (Δ9-THCH)	0.024	0.071	ND	ND
Cannabinol Acetate (CBNO)	0.014	0.043	0.53	5.27
Δ9-Tetrahydrocannabinol (Δ9-THCP)	0.017	0.16	0.64	6.45
Δ8-Tetrahydrocannabinol (Δ8-THCP)	0.041	0.16	2.23	22.32
Cannabicitran (CBT)	0.005	0.16	0.48	4.82
Δ8-THC-O-acetate (Δ8-THCO)	0.076	0.16	ND	ND
9(S)-HHCP (s-HHCP)	0.031	0.094	ND	ND
Δ9-THC-O-acetate (Δ9-THCO)	0.066	0.16	ND	ND
9(R)-HHCP (r-HHCP)	0.026	0.079	ND	ND
9(S)-HHC-O-acetate (s-HHCO)	0.005	0.16	ND	ND
9(R)-HHC-O-acetate (r-HHCO)	0.008	0.025	ND	ND
3-octyl-Δ8-Tetrahydrocannabinol (Δ8-THC-C8)	0.067	0.204	ND	ND
Total THC (THCa * 0.877 + Δ9THC)			0.63	6.30
Total THC + Δ8THC + Δ10THC (THCa * 0.877 + Δ9THC + Δ8THC + Δ10THC)			52.02	520.15
Total CBD (CBDA * 0.877 + CBD)			2.38	23.85
Total CBG (CBGA * 0.877 + CBG)			0.09	0.94
Total HHC (9r-HHC + 9s-HHC)			ND	ND
Total Cannabinoids Analyzed			62.68	626.82

HME - Heavy Metals Analysis

Analyzed **Feb 20, 2025** | Instrument **ICP/MSMS** | Method **SOP-005**

Analyte	LOD ug/g	LOQ ug/g	Result ug/g	Limit ug/g
Arsenic (As)	0.0009	0.0027	ND	1.5
Cadmium (Cd)	0.0005	0.0015	0.00	0.5
Mercury (Hg)	0.0058	0.0174	ND	3
Lead (Pb)	0.0006	0.0018	ND	0.5
Nickel (Ni)	6.0e-05	0.0002	NT	

UI Unidentified
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



Scan the QR code to verify authenticity.

Authorized Signature

Brandon Starr

Brandon Starr, Lab Manager
Thu, 22 Feb 2025 11:49:56 -0800



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MIBIG - Microbial Analysis

Analyzed Feb 22, 2025 Instrument qPCR and/or Plating Method SOP-007								
Analyte	LOD LOQ		Result	Limit	Analyte	LOD LOQ		Result
			CFU/g					CFU/g
Shiga toxin-producing Escherichia Coli			ND	ND per 1 gram	Salmonella spp.			ND
Aspergillus fumigatus			ND	ND per 1 gram	Aspergillus flavus			ND
Aspergillus niger			ND	ND per 1 gram	Aspergillus terreus			ND

MTO - Mycotoxin Analysis

Analyzed Feb 22, 2025 Instrument LC/MSMS Method SOP-004									
Analyte	LOD	LOQ	Result	Limit	Analyte	LOD	LOQ	Result	Limit
	ug/kg	ug/kg	ug/kg (ppb)	ug/kg		ug/kg	ug/kg	ug/kg (ppb)	ug/kg
Ochratoxin A	5.0	20.0	ND	20	Aflatoxin B1	2.5	5.0	ND	-
Aflatoxin B2	2.5	5.0	ND	-	Aflatoxin G1	2.5	5.0	ND	-
Aflatoxin G2	2.5	5.0	ND	-	Total Aflatoxins	10.0	20.0	ND	20

UI Unidentified
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
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Analyzed Feb 22, 2025 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	0.0078	0.02	ND	0.0078	Carbofuran	0.01	0.02	ND	0.01	
Dimethoate	0.01	0.02	ND	0.01	Etofenprox	0.02	0.1	ND	0.02	
Fenoxycarb	0.01	0.02	ND	0.01	Thiachloprid	0.01	0.02	ND	0.01	
Daminozide	0.01	0.03	ND	0.01	Dichlorvos	0.02	0.07	ND	0.02	
Imazalil	0.02	0.07	ND	0.02	Methiocarb	0.01	0.02	ND	0.01	
Spiroxamine	0.01	0.02	ND	0.01	Coumaphos	0.01	0.02	ND	0.01	
Fipronil	0.01	0.1	ND	0.01	Paclobutrazol	0.01	0.03	ND	0.01	
Chlorpyrifos	0.01	0.04	ND	0.01	Ethoprophos (Prophos)	0.01	0.02	ND	0.01	
Baygon (Propoxur)	0.01	0.02	ND	0.01	Chlordane	0.04	0.1	ND	0.04	
Chlorfenapyr	0.01	0.1	ND	0.03	Methyl Parathion	0.02	0.1	ND	0.02	
Chlorfenapyr	0.03	0.08	ND	0.03	Abamectin	0.03	0.08	ND	0.1	
Mevinphos	0.03	0.05	ND	0.1	Acetamiprid	0.01	0.05	ND	0.1	
Acephate	0.02	0.02	ND	0.1	Bifenazote	0.01	0.05	ND	0.1	
Azoxystrobin	0.01	0.35	ND	3	Boscalid	0.01	0.03	ND	0.1	
Bifenthrin	0.02	0.02	ND	0.5	Chlorantraniliprole	0.01	0.04	ND	10	
Carbaryl	0.01	0.03	ND	0.1	Diazinon	0.01	0.02	ND	0.1	
Clofentezine	0.01	0.06	ND	2	Etoazole	0.01	0.05	ND	0.1	
Dimethomorph	0.02	0.1	ND	0.1	Flonicamid	0.01	0.02	ND	0.1	
Fenpropximate	0.02	0.05	ND	0.1	Hexythiazox	0.01	0.03	ND	0.1	
Fludoxonil	0.01	0.05	ND	5	Kresoxim-methyl	0.01	0.03	ND	0.1	
Imidacloprid	0.01	0.05	ND	0.5	Metalaxyl	0.01	0.02	ND	2	
Malathion	0.01	0.05	ND	1	Myclobutanil	0.02	0.07	ND	0.1	
Methomyl	0.01	0.02	ND	0.1	Oxamyl	0.01	0.02	ND	0.5	
Naled	0.02	0.02	ND	0.5	Phosmet	0.01	0.02	ND	0.1	
Permethrin	0.01	0.06	ND	3	Propiconazole	0.03	0.08	ND	0.1	
Piperonyl Butoxide	0.01	0.05	ND	0.1	Pyrethrin	0.05	0.41	ND	0.5	
Prallethrin	0.02	0.07	ND	0.1	Spinosad A	0.01	0.05	ND	0.1	
Pyridaben	0.02	0.05	ND	0.1	Spiromesifen	0.02	0.06	ND	0.1	
Spinosad D	0.02	0.02	ND	0.1	Tebuconazole	0.01	0.02	ND	0.1	
Spiratetramat	0.01	0.02	ND	5	Trifloxystrobin	0.01	0.02	ND	0.1	
Thiamethoxam	0.01	0.09	ND	0.1	Captan	0.01	0.02	ND	0.7	
Acequinocyl	0.01	0.1	ND	1	Cyfluthrin	0.04	0.1	ND	2	
Cypermethrin	0.02	0.07	ND	0.1	Spinetoram J.L	0.02	0.07	ND	0.1	
Fenhexamid	0.02									
Pentachloronitrobenzene	0.01									

RES - Residual Solvents Analysis

Analyzed Feb 21, 2025 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	ND		Butane (But)	0.4	40.0	ND		
Methanol (Metha)	0.4	40.0	ND		Ethylene Oxide (EthOx)	0.4	0.8	ND		
Pentane (Pen)	0.4	40.0	ND		Ethanol (Ethan)	0.4	40.0	ND		
Ethyl Ether (EthEt)	0.4	40.0	ND		Acetone (Acet)	0.4	40.0	ND		
Isopropanol (Z-Pro)	0.4	40.0	ND		Acetonitrile (Acetonit)	0.4	40.0	ND		
Methylene Chloride (MetCh)	0.4	0.8	ND		Hexane (Hex)	0.4	40.0	ND		
Ethyl Acetate (EthAc)	0.4	40.0	ND		Chloroform (Clo)	0.4	0.8	ND		
Benzene (Ben)	0.4	0.8	ND		1-2-Dichloroethane (12-Dich)	0.4	0.8	ND		
Heptane (Hep)	0.4	40.0	ND		Trichloroethylene (TriClEth)	0.4	0.8	ND		
Toluene (Toluene)	0.4	40.0	ND		Xylenes (Xyl)	0.4	40.0	ND		

FVI - Filth & Foreign Material Inspection Analysis

Analyzed Feb 19, 2025 Instrument Microscope Method SOP-010							
Analyte / Limit	Result		Analyte / Limit		Result		
> 1/4 of the total sample area covered by sand, soil, cinders, or dirt	ND		> 1/4 of the total sample area covered by mold	ND			
> 1 insect fragment, 1 hair, or 1 count mammalian excreta per 3g	ND		> 1/4 of the total sample area covered by an imbedded foreign material	ND			

UI Unidentified
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
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