

PharmLabs San Diego Certificate of Analysis

3421 Hancock St, Second Floor, San Diego, CA 92110 | License: C8-0000098-LIC
ISO/IEC 17025:2017 Certification L17-427-1 | Accreditation #85368



Sample ID: SD221116-036 (55109) Matrix: Flower (Inhalable Cannabis Good)
Sampled: Received Nov 16, 2022 Reported: Nov 17, 2022
Analyses executed: CANX

Laboratory note: The estimated concentration of the unknown peak in the sample is 0.12%. Currently, PharmLabs laboratory cannot confirm an unidentified peak in your chromatogram due to interference (only with highly concentrated DB products) from which we believe to be either (+)-8-THC or (+)-9-THC. At this time there are no reference standards available for (+)-8-THC and (+)-9-THC is a different compound from the main (-)-8-THC cannabinoid and, therefore, these two compounds may have different efficacies. Using the most advanced instruments and techniques available, the separation of (+)-8-THC and (+)-9-THC is problematic for the scientific community as a whole. PharmLabs believes the unidentified peak to be a combination of (+)-8-THC and (+)-9-THC with the majority, if not all, of the concentration being (+)-8-THC. Total DB-THC is estimated to be 0.18%.

CANX - Cannabinoids Analysis

Analyzed Nov 17, 2022 | Instrument HPLC
Measurement Uncertainty at 95% confidence 7.81%

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 (CBD)	0.002	0.007	ND	ND
Abnormal Cannabidiol (a-CBD)	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	13.52	135.23
Cannabigerol Acid (CBGA)	0.001	0.16	0.30	2.97
Cannabigerol (CBG)	0.001	0.16	0.05	0.47
Cannabidiol (CBD)	0.001	0.16	1.63	16.33
1(S)-THD (s-THD)	0.013	0.041	ND	ND
1(R)-THD (r-THD)	0.025	0.075	ND	ND
Tetrahydrocannabinol (THCV)	0.001	0.16	ND	ND
Δ8-tetrahydrocannabinol (Δ8-THCV)	0.021	0.064	ND	ND
Tetrahydrocannabinol (Δ9-THCB)	0.013	0.038	ND	ND
Cannabinol (CBN)	0.001	0.16	ND	ND
Cannabidiophenol (CBDP)			ND	ND
exo-THC (exo-THC)	0.016	0.8	ND	ND
Tetrahydrocannabinol (Δ9-THC)	0.003	0.16	UI	UI
Δ8-tetrahydrocannabinol (Δ8-THC)	0.004	0.16	0.18	1.76
(6aR,9S)-Δ10-Tetrahydrocannabinol ((6aR,9S)-Δ10)	0.015	0.16	0.24	2.43
Hexahydrocannabinol (S Isomer) (9s-HHC)	0.017	0.16	ND	ND
(6aR,9R)-Δ10-Tetrahydrocannabinol ((6aR,9R)-Δ10)	0.007	0.16	1.55	15.54
Hexahydrocannabinol (R Isomer) (9r-HHC)	0.016	0.16	ND	ND
Tetrahydrocannabinolic Acid (THCA)	0.001	0.16	0.49	4.92
Δ9-Tetrahydrocannabinol (Δ9-THCH)	0.024	0.071	ND	ND
Cannabinol Acetate (CBNA)	0.014	0.043	ND	ND
Δ9-Tetrahydrocannabinol (Δ9-THCP)	0.017	0.16	ND	ND
Δ8-Tetrahydrocannabinol (Δ8-THCP)	0.041	0.16	ND	ND
Δ8-THC-O-acetate (Δ8-THCO)	0.076	0.16	ND	ND
9(S)-HHC (s-HHCP)	0.031	0.094	ND	ND
Δ9-THC-O-acetate (Δ9-THCO)	0.066	0.16	ND	ND
9(R)-HHC (r-HHCP)	0.026	0.079	ND	ND
3-acetyl-Δ8-Tetrahydrocannabinol (Δ8-THC-C8)	0.067	0.204	ND	ND
Total THC (THCa + Δ9THC + Δ8THC + Δ10THC)			0.43	4.32
Total CBD (CBDA + CBD)			2.40	24.05
Total CBG (CBGA + CBG)			13.49	134.92
Total HHC (9r-HHC + 9s-HHC)			0.31	3.08
Total Cannabinoids			ND	ND
			16.20	162.05

*Dry Weight %

UI Not identified
ND Not Detected
N/A Not Applicable
NT Not Reported
LOD Limit of Detection
LOQ Limit of Quantification
cLOQ Detected
SULQ Above upper limit of linearity
CFU/g Colony Forming Units per 1 gram
TYNC Too Numerous to Count



Authorized Signature

Brandon Stahl

Brandon Stahl, Lab Manager
Thu, 17 Nov 2022 12:38:24 -0800

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Sample **Northern Lights 10**

Sample ID SD221110-045 (54745)

Matrix Flower (Inhalable Cannabis Good)

Sampled -

Received Nov 09, 2022

Reported Nov 11, 2022

Analyses executed CANX, MWA

CANX - Cannabinoids Analysis

Analyzed Nov 10, 2022 | Instrument HPLC

Measurement Uncertainty at 95% confidence 7.81%

Analyte	LOD mg/g	LOQ mg/g	Result %	Result mg/g
11-Hydroxy- Δ^8 -Tetrahydrocannabinol (11-Hyd- Δ^8 -THCV)	0.013	0.041	ND	ND
Cannabidiol (CBD)	0.002	0.007	ND	ND
Abnormal Cannabidiol (a-CBD)	0.01	0.031	ND	ND
(+/-)-9B-Hydroxy-Hexahydrocannabinol (9b-HHC)	0.012	0.036	ND	ND
11-Hydroxy- Δ^8 -Tetrahydrocannabinol (11-Hyd- Δ^8 -THC)	0.007	0.021	ND	ND
Cannabidiolic Acid (CBDA)	0.001	0.16	13.63	136.34
Cannabigerol Acid (CBGA)	0.001	0.16	0.39	3.86
Cannabigerol (CBG)	0.001	0.16	ND	ND
Cannabidiol (CBD)	0.001	0.16	0.69	6.90
1(S)-THD (S-THD)	0.013	0.041	ND	ND
1(R)-THD (R-THD)	0.025	0.075	ND	ND
Tetrahydrocannabinol (THCV)	0.001	0.16	ND	ND
Δ^8 -tetrahydrocannabinol (Δ^8 -THCV)	0.021	0.064	ND	ND
Tetrahydrocannabinol (Δ^9 -THCB)	0.013	0.038	ND	ND
Cannabinol (CBN)	0.001	0.16	ND	ND
Cannabiphoral (CBDP)			NT	NT
exo-THC (exo-THC)	0.016	0.8	ND	ND
Tetrahydrocannabinol (Δ^9 -THC)	0.003	0.16	0.21	2.10
Δ^8 -tetrahydrocannabinol (Δ^8 -THC)	0.004	0.16	1.01	10.07
(6aR,9S)- Δ^{10} -Tetrahydrocannabinol ((6aR,9S)- Δ^{10})	0.015	0.16	0.31	3.11
Hexahydrocannabinol (S Isomer) (9s-HHC)	0.017	0.16	1.48	14.79
(6aR,9R)- Δ^{10} -Tetrahydrocannabinol ((6aR,9R)- Δ^{10})	0.007	0.16	2.35	23.51
Hexahydrocannabinol (R Isomer) (9r-HHC)	0.016	0.16	2.31	23.10
Tetrahydrocannabinolic Acid (THCA)	0.001	0.16	0.61	6.13
Δ^9 -Tetrahydrocannabinol (THCH)	0.024	0.071	ND	ND
Cannabinol Acetate (CBNO)	0.014	0.043	ND	ND
Δ^9 -Tetrahydrocannabinol (THCP)	0.017	0.16	ND	ND
Δ^8 -Tetrahydrocannabinol (THCP)	0.041	0.16	ND	ND
Δ^8 -THC-O-acetate (Δ^8 -THCO)	0.076	0.16	ND	ND
9(S)-HHCP (S-HHCP)	0.031	0.094	ND	ND
Δ^9 -THC-O-acetate (Δ^9 -THCO)	0.066	0.16	ND	ND
9(R)-HHCP (R-HHCP)	0.026	0.079	ND	ND
3-octyl- Δ^8 -Tetrahydrocannabinol (Δ^8 -THC-C8)	0.067	0.204	ND	ND
Total THC (THCA * 0.877 + Δ^9 THC)			0.75	7.47
Total THC + Δ^8 THC + Δ^{10} THC (THCA * 0.877 + Δ^9 THC + Δ^8 THC + Δ^{10} THC)			4.42	44.17
Total CBD (CBDA * 0.877 + CBD)			12.65	126.47
Total CBG (CBGA * 0.877 + CBG)			0.34	3.39
Total HHC (9r-HHC + 9s-HHC)			3.79	37.88
Total Cannabinoids			21.19	211.91

*Dry Weight %

MWA - Moisture Content & Water Activity Analysis

Analyzed Nov 11, 2022 | Instrument Chilled-mirror Dewpoint and Capacitance | Method SOP-008

Analyte	Result	Limit	Analyte	Result	Limit
Moisture (Mo)	5.8 % Mw	15 % Mw	Water Activity (WA)	0.49 a _w	0.85 a _w

UI Not Identified
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



RP001:043

Authorized Signature

Brandon Starr

Brandon Starr, Lab Manager
Fri, 11 Nov 2022 14:29:49 -0800

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Sample **Gorilla Glue 10**Sample ID **SD221110-037 (54762)**Matrix **Flower (Inhalable Cannabis Good)**

Sampled -
Analyses executed **CANX, MWA**

Received **Nov 09, 2022**Reported **Nov 11, 2022****CANX - Cannabinoids Analysis**

Analyzed **Nov 11, 2022** | Instrument **HLPC**
Measurement Uncertainty at 95% confidence **7.81%**

Analyte	LOD mg/g	LOQ mg/g	Result %	Result mg/g
11-Hydroxy- Δ^8 -Tetrahydrocannabinol (11-Hyd- Δ^8 -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- Δ^8 -Tetrahydrocannabinol (11-Hyd- Δ^8 -THC)	0.007	0.021	ND	ND
Cannabidiolic Acid (CBDA)	0.001	0.16	12.41	124.09
Cannabigerol Acid (CBGA)	0.001	0.16	0.44	4.35
Cannabigerol (CBG)	0.001	0.16	0.06	0.59
Cannabidiol (CBD)	0.001	0.16	1.79	17.95
1(S)-THD (s-THD)	0.013	0.041	ND	ND
1(R)-THD (r-THD)	0.025	0.075	ND	ND
Tetrahydrocannabinol (THCV)	0.001	0.16	ND	ND
Δ^8 -tetrahydrocannabinol (Δ^8 -THCV)	0.021	0.064	ND	ND
Tetrahydrocannabinol (Δ^9 -THCB)	0.013	0.038	ND	ND
Cannabinol (CBN)	0.001	0.16	ND	ND
Cannabidiophorol (CBDP)			NT	NT
exo-THC (exo-THC)	0.016	0.8	ND	ND
Tetrahydrocannabinol (Δ^9 -THC)	0.003	0.16	0.26	2.55
Δ^8 -tetrahydrocannabinol (Δ^8 -THC)	0.004	0.16	0.40	4.01
(6aR,9S)- Δ^{10} -Tetrahydrocannabinol ((6aR,9S)- Δ^{10})	0.015	0.16	1.10	11.04
Hexahydrocannabinol (S Isomer) (9s-HHC)	0.017	0.16	0.82	8.25
(6aR,9R)- Δ^{10} -Tetrahydrocannabinol ((6aR,9R)- Δ^{10})	0.007	0.16	7.85	78.55
Hexahydrocannabinol (R Isomer) (9r-HHC)	0.016	0.16	0.74	7.38
Tetrahydrocannabinolic Acid (THCA)	0.001	0.16	0.60	6.00
Δ^9 -Tetrahydrocannabinol (Δ^9 -THCH)	0.024	0.071	ND	ND
Cannabinol Acetate (CBNO)	0.014	0.043	ND	ND
Δ^9 -Tetrahydrocannabinol (Δ^9 -THCP)	0.017	0.16	ND	ND
Δ^8 -Tetrahydrocannabinol (Δ^8 -THCP)	0.041	0.16	ND	ND
Δ^8 -THC-O-acetate (Δ^8 -THCO)	0.076	0.16	ND	ND
9(S)-HHCP (s-HHCP)	0.031	0.094	ND	ND
Δ^9 -THC-O-acetate (Δ^9 -THCO)	0.066	0.16	ND	ND
9(R)-HHCP (r-HHCP)	0.026	0.079	ND	ND
3-octyl- Δ^8 -Tetrahydrocannabinol (Δ^8 -THC-C8)	0.067	0.204	ND	ND
Total THC (THCA * 0.877 + Δ^9 THC)			0.78	7.82
Total THC + Δ^8 THC + Δ^{10} THC (THCA * 0.877 + Δ^9 THC + Δ^8 THC + Δ^{10} THC)			10.14	101.42
Total CBD (CBDA * 0.877 + CBD)			12.68	126.77
Total CBG (CBGA * 0.877 + CBG)			0.44	4.41
Total HHC (9r-HHC + 9s-HHC)			1.56	15.63
Total Cannabinoids			24.82	248.23

*Dry Weight %

MWA - Moisture Content & Water Activity AnalysisAnalyzed **Nov 11, 2022** | Instrument **Chilled-mirror Dewpoint and Capacitance** | Method **SOP-008**

Analyte	Result	Limit	Analyte	Result	Limit
Moisture (Moi)	5.5 % Mw	13 % Mw	Water Activity (WA)	0.39 a _w	0.85 a _w

UI Not Identified
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

Brandon Starr

Brandon Starr, Lab Manager
Fri, 11 Nov 2022 14:29:42 -0800

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Sample **Zkittles 10**

Sample ID: SI022MO-036 (54761)

4-21-83 Flower (Inhaleable Cannabis Good)

Sampled --

Received: Nov 09, 2022

Reported Nov 11, 2022

ANALYSIS REPORTED CANX, MWA

CANX - Cannabinoids Analysis

Analyzed Nov 11, 2022 | Instrument HPLC
Measurement Uncertainty of 95% confidence 7.81%

Analyte	mg/g	mg/g	%	mg/g
TH-Hydroxy- Δ^8 -Tetrahydrocannabinol (TH-Hyd- Δ^8 -THC)	0.013	0.041	ND	N.D.
Cannabinol (CBDO)	0.002	0.007	ND	N.D.
Alarmino Cannabidiol (a-CBD)	0.01	0.031	ND	N.D.
(+/-)-9B-Hydroxy-Hexahydrocannabinol (9B-HHC)	0.012	0.036	ND	N.D.
TH-Hydroxy- Δ^8 -Tetrahydrocannabinol (TH-Hyd- Δ^8 -THC)	0.007	0.021	ND	N.D.
Cannabidiolic Acid (CBDA)	0.001	0.16	11.68	116.86
Cannabigerolic Acid (CBGA)	0.001	0.16	0.43	4.33
Cannabigerol (CBG)	0.001	0.16	0.04	0.42
Cannabinol (CBD)	0.001	0.16	0.98	9.13
(S)-THC (+)-THC)	0.013	0.041	ND	N.D.
(R)-THC (-)-THC)	0.025	0.075	ND	N.D.
Tetrahydrocannabinol (THC)	0.009	0.16	ND	N.D.
Δ^8 -tetrahydrocannabinol (Δ^8 -THC)	0.021	0.064	ND	N.D.
Tetrahydrocannabinol (Δ^9 -THC)	0.013	0.039	ND	N.D.
Cannabinol (CBN)	0.001	0.16	ND	N.D.
Cannabidiol (CBDP)			ND	N.D.
exo-THC (exo-THC)	0.016	0.16	ND	N.D.
Tetrahydrocannabinol (Δ^9 -THC)	0.003	0.16	0.14	1.72
Δ^8 -tetrahydrocannabinol (Δ^8 -THC)	0.004	0.16	0.15	1.78
(6aR,9S)- Δ^10 -Tetrahydrocannabinol ((6aR,9S)- Δ^10)	0.015	0.16	0.56	5.15
Hexahydrocannabinol (S isomer) (9S-HHC)	0.017	0.16	0.41	4.06
(6aR,9R)- Δ^10 -Tetrahydrocannabinol ((6aR,9R)- Δ^10)	0.007	0.16	3.61	36.13
Hexahydrocannabinol (R isomer) (9R-HHC)	0.016	0.16	0.43	4.33
Tetrahydrocannabinolic Acid (THCA)	0.001	0.16	0.51	5.43
Δ^9 -Tetrahydrocannabinol (Δ^9 -THC)	0.024	0.071	ND	N.D.
Cannabinol Acetate (CBNA)	0.014	0.043	ND	N.D.
Δ^9 -Tetrahydrocannabinol (Δ^9 -THC)	0.017	0.16	ND	N.D.
Δ^8 -Tetrahydrocannabinol (Δ^8 -THC)	0.041	0.16	ND	N.D.
Δ^8 -THC-CO ₂ (THC-CO ₂)	0.076	0.16	ND	N.D.
9(S)-HHC (9S-HHC)	0.031	0.094	ND	N.D.
Δ^9 -THC-CO ₂ (THC-CO ₂)	0.066	0.16	ND	N.D.
9(R)-HHC (9R-HHC)	0.026	0.079	ND	N.D.
3-acetyl- Δ^8 -Tetrahydrocannabinol (Δ^8 -THC-CB)	0.067	0.204	ND	N.D.
Total THC (THC + 0.877 + 0.9THC)			0.59	5.37
Total THC + Δ^8 THC + Δ^10 THC (THC + 0.877 + Δ^8 THC + Δ^10 THC)			4.88	48.45
Total CBDA (CBDA + 0.877 + CBG)			1.23	11.37
Total CBG (CBG + 0.877 + CBG)			0.42	4.21
Total HHC (9S-HHC + 9R-HHC)			0.84	8.17
Total Cannabinoids			17.37	173.70

Dry Weight %

MWA - Moisture Content & Water Activity Analysis

Analyzed: Nov 11, 2022 | Instrument Chilled-mirror Dewpoint and Capacitance | Method SOP-008

Analyte	Result	Limit	Analyte	Result	Limit
Moisture (Mf)	6.7 % Mv	10.0 % Mv	Water Activity (W4)	0.48 a _w	0.85 a _w

UN Not Identified
 ND Not Detected
 N/A Not Applicable
 NR Not Reported
 LOD Limit of Detection
 LOQ Limit of Quantification
 cLOQ Detection
 SULOL Above upper limit of linearity
 CFU/g Colony forming Units per gram
 TNTC Too Numerous to Count



Authorized Signature _____

Brandon Stahl

Branden Storr, Lab Manager
Fri, 11 May 2023 14:26:45 -0800

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[illegible]