

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 **BV HHCH 001**

Sample ID <b>SD230107-009 (59450)</b>	Matrix <b>Concentrate (Inhalable Cannabis Good)</b>
Tested for	
Sampled -	Received <b>Jan 06, 2023</b>
Analyses executed <b>CANX</b>	Reported <b>Jan 09, 2023</b>

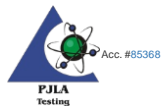
**Laboratory note:** There are three unidentified peaks detected in the chromatogram at retention times 3.430, 10.810, and 11.243 minutes. The estimated concentrations of these peaks, respectively, are 13.56%, 5.71%, and 41.89%. Total cannabinoids is estimated to be 61.16%.

**CANX - Cannabinoids Analysis**

Analyzed **Jan 09, 2023** | Instrument **HLPC**  
 Measurement Uncertainty at 95% confidence **7.806%**

Analyte	LOD mg/g	LOQ mg/g	Result %	Result mg/g	Sample photography
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	ND	ND	
Cannabidiol (CBD)	0.001	0.16	ND	ND	
1(S)-THD (s-THD)	0.013	0.041	ND	ND	
1(R)-THD (r-THD)	0.025	0.075	ND	ND	
Tetrahydrocannabivarin (THCV)	0.001	0.16	ND	ND	
Δ8-tetrahydrocannabivarin (Δ8-THCV)	0.021	0.064	ND	ND	
Tetrahydrocannabutol (Δ9-THCB)	0.013	0.038	ND	ND	
Cannabinol (CBN)	0.001	0.16	ND	ND	
Cannabidiphorol (CBDP)	0.015	0.047	ND	ND	
exo-THC (exo-THC)	0.016	0.8	ND	ND	
Tetrahydrocannabinol (Δ9-THC)	0.003	0.16	ND	ND	
Δ8-tetrahydrocannabinol (Δ8-THC)	0.004	0.16	ND	ND	
(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	
Tetrahydrocannabinolic Acid (THCA)	0.001	0.16	ND	ND	
Δ9-Tetrahydrocannabinol (Δ9-THCH)	0.024	0.071	ND	ND	
Cannabinol Acetate (CBNO)	0.014	0.043	ND	ND	
Δ9-Tetrahydrocannabiphorol (Δ9-THCP)	0.017	0.16	ND	ND	
Δ8-Tetrahydrocannabiphorol (Δ8-THCP)	0.041	0.16	ND	ND	
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	
3-octyl-Δ8-Tetrahydrocannabinol (Δ8-THC-C8)	0.067	0.204	ND	ND	
<b>Total THC (THCa * 0.877 + Δ9THC)</b>			ND	ND	
<b>Total THC + Δ8THC + Δ10THC (THCa * 0.877 + Δ9THC + Δ8THC + Δ10THC)</b>			ND	ND	
<b>Total CBD (CBDa * 0.877 + CBD)</b>			ND	ND	
<b>Total CBG (CBGa * 0.877 + CBG)</b>			ND	ND	
<b>Total HHC (9r-HHC + 9s-HHC)</b>			ND	ND	
<b>Total Cannabinoids</b>			ND	ND	

UI Not Identified  
 ND Not Detected  
 N/A Not Applicable  
 NT Not Reported  
 LOD Limit of Detection  
 LOQ Limit of Quantification  
 <LOQ Detected  
 >LOL 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  
 Mon, 09 Jan 2023 17:05:35 -0800

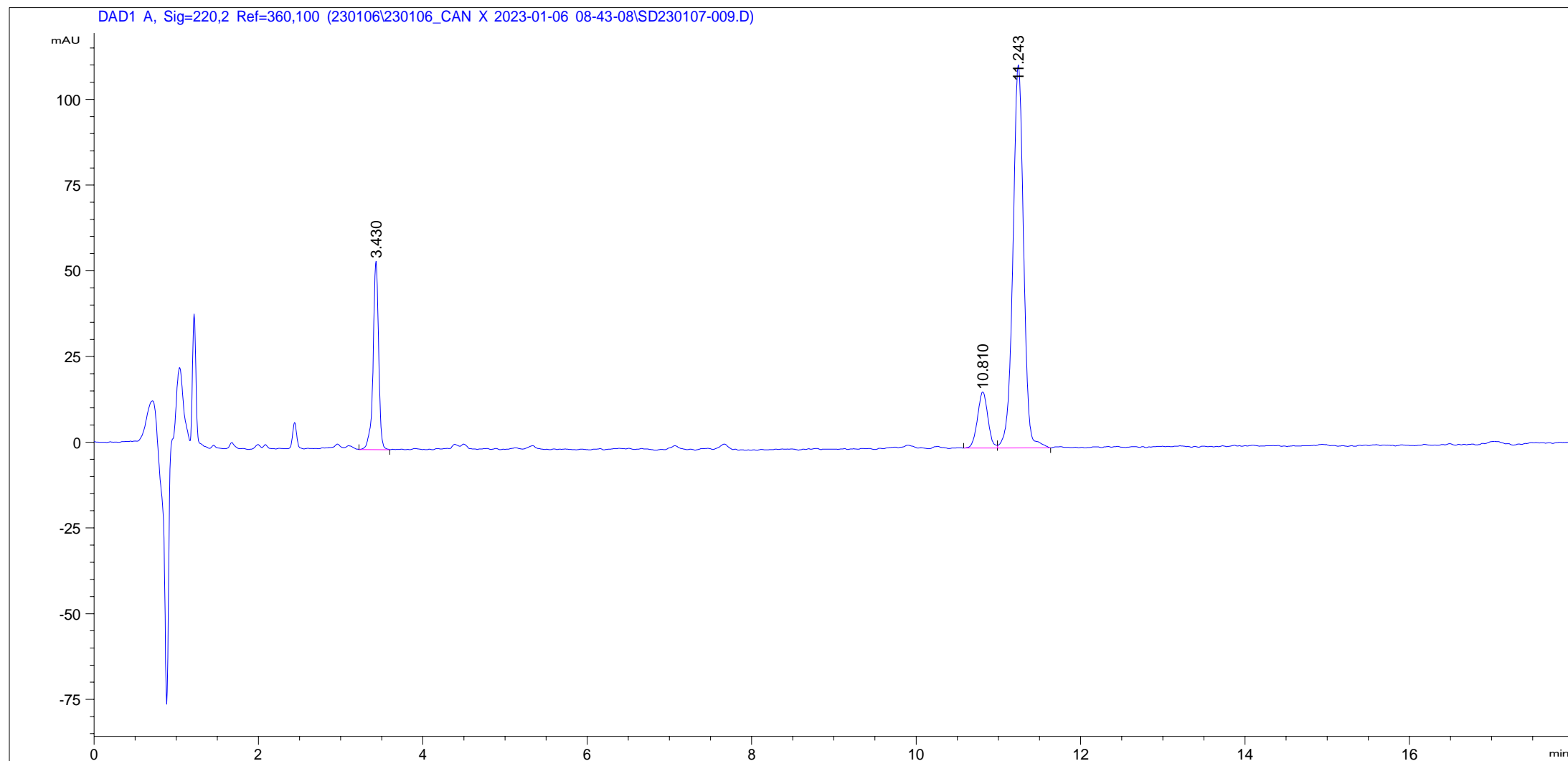
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=====
Acq. Operator   : JJ                               Seq. Line :   50
Acq. Instrument : Instrument 1                     Location  : Vial 43
Injection Date  : 1/7/2023 12:58:14 AM           Inj       :    1
                                                    Inj Volume: 5.0 µl
Acq. Method     : C:\CHEM32\1\DATA\230106\230106_CAN X 2023-01-06 08-43-08\1 CAN X.M
Last changed    : 1/5/2023 1:39:45 PM by JJ
Analysis Method : C:\CHEM32\1\DATA\230106\230106_CAN X 2023-01-06 08-43-08\1 CAN X E.M
Last changed    : 1/9/2023 11:20:58 AM by JJ
                  (modified after loading) (Results are from a previously saved Batch)
Additional Info : Peak(s) manually integrated
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External Standard Report

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Sorted By           :      Retention Time
Calib. Data Modified :      1/9/2023 11:21:39 AM
Multiplier:         :      1.0000
Dilution:           :      50.0000
Use Multiplier & Dilution Factor with ISTDs
  
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Signal 1: DAD1 A, Sig=220,2 Ref=360,100

RetTime [min]	Sig	Type	Area [mAU*s]	Amt/Area	Amount [mg/L]	Grp	Name
1.497	1		-	-	-		11-Hydroxy-d8 THCv
1.585	1		-	-	-		O-1821
1.786	1		-	-	-		O-1602
2.114	1		-	-	-		9B-Hydroxy-HHC
2.214	1		-	-	-		11-Hydroxy-d8-THC
2.707	1		-	-	-		CBDA
2.921	1		-	-	-		CBGA
3.084	1		-	-	-		CBG
3.270	1		-	-	-		CBD
3.540	1		-	-	-		(S)-THD
3.602	1		-	-	-		(R)-THD
3.685	1		-	-	-		THCV
3.799	1		-	-	-		d8-THCV
4.891	1		-	-	-		THC-B
5.166	1		-	-	-		CBN
5.789	1		-	-	-		CBDP
6.384	1		-	-	-		EXO THC
6.630	1		-	-	-		d9-THC
6.844	1		-	-	-		d8-THC
7.768	1		-	-	-		9s-d10-THC
7.968	1		-	-	-		9S-HHC
8.150	1		-	-	-		9r-d10-THC
8.419	1		-	-	-		9R-HHC
8.866	1		-	-	-		THCA-A
9.131	1		-	-	-		d9-THCH
10.502	1		-	-	-		Cannibinol Acetate
12.329	1		-	-	-		d9-THC-P
12.658	1		-	-	-		d8-THC-P
13.679	1		-	-	-		d8-THC-O
14.401	1		-	-	-		(S) HHC-P
14.702	1		-	-	-		d9-THC-O
14.953	1		-	-	-		(R) HHC-P
16.529	1		-	-	-		D8-THC-C8

=====
Acq. Operator : JJ Seq. Line : 50
Acq. Instrument : Instrument 1 Location : Vial 43
Injection Date : 1/7/2023 12:58:14 AM Inj : 1
Inj Volume : 5.0 µl
Acq. Method : C:\CHEM32\1\DATA\230106\230106\_CAN X 2023-01-06 08-43-08\1 CAN X.M
Last changed : 1/5/2023 1:39:45 PM by JJ
Analysis Method : C:\CHEM32\1\DATA\230106\230106\_CAN X 2023-01-06 08-43-08\1 CAN X E.M
Last changed : 1/9/2023 11:20:58 AM by JJ
(modified after loading) (Results are from a previously saved Batch)
Additional Info : Peak(s) manually integrated
=====

Table with 7 columns: RetTime [min], Sig, Type, Area [mAU\*s], Amt/Area, Amount [mg/L], Grp, Name. Totals: 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Time reference compound(s) not found

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=====  
Area Percent Report  
=====

Sorted By : Retention Time
Calib. Data Modified : 1/9/2023 11:21:39 AM
Multiplier: : 1.0000
Dilution: : 50.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=220,2 Ref=360,100

Table with 7 columns: Peak #, RetTime [min], Sig, Type, Area [mAU\*s], Area %, Name. Lists 33 peaks including 11-Hydroxy-d8 THC, O-1821, O-1602, 9B-Hydroxy-HHC, etc.

Totals : 0.00000

Uncalibrated Peaks:

Table with 7 columns: Peak #, RetTime [min], Sig, Type, Area [mAU\*s], Area %, Name. Lists 3 uncalibrated peaks: HB, BV, VB.

Uncalib. totals : 1407.21208

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Time reference compound(s) not found

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Compound-related custom fields:  
\*\*\* End of Report \*\*\*

