

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 **CR+ D8/D10 Highlighter - Green Crack**

Sample ID SD221209-011 (56701)	Matrix Concentrate (Inhalable Cannabis Good)	Batch ID CRC221810-02
Tested for Canna River	Received Dec 08, 2022	Reported Dec 14, 2022
Analyses executed CANX, RES, MIBIG, MTO, PES, HME, FVI		Unit Mass (g) 2.5

**Laboratory note:** The estimated concentration of the unknown peak in the sample is 10.55% | Currently PharmLabs laboratory can not confirm an unidentified peak in your chromatogram due to interference (only with highly concentrated D8 products) from which we believe to be either (+)-d8-THC or d9-THC. At this time there are no reference standards available for (+)-d8-THC. (+)-d8-THC is a different compound from the main (-)-d8-THC cannabinoid and, therefore, these two compounds may have different efficacies. Using the most advanced instruments and techniques available, the separation of (+)-d8-THC and d9-THC is problematic for the scientific community as a whole. PharmLabs believes the unidentified peak to be a combination of (+)-d8-THC and d9-THC with the majority, if not all, of the concentration being (+)-d8-THC. Total d8-THC is estimated to be 76.63%.

**CANX - Cannabinoids Analysis**

Analyzed Dec 12, 2022 | Instrument HLPC  
 Measurement Uncertainty at 95% confidence 7.806%

Analyte	LOD mg/g	LOQ mg/g	Result %	Result mg/g	Result mg/Unit	Sample photography
11-Hydroxy-Δ8-Tetrahydrocannabinol (11-Hyd-Δ8-THCV)	0.013	0.041	ND	ND	ND	
Cannabidiol (CBD)	0.002	0.007	ND	ND	ND	
Abnormal Cannabidiol (a-CBDO)	0.01	0.031	ND	ND	ND	
(+/-)-9B-Hydroxy-Hexahydrocannabinol (9b-HHC)	0.012	0.036	ND	ND	ND	
11-Hydroxy-Δ8-Tetrahydrocannabinol (11-Hyd-Δ8-THC)	0.007	0.021	ND	ND	ND	
Cannabidiolic Acid (CBDA)	0.001	0.16	ND	ND	ND	
Cannabigerol Acid (CBGA)	0.001	0.16	ND	ND	ND	
Cannabigerol (CBG)	0.001	0.16	ND	ND	ND	
Cannabidiol (CBD)	0.001	0.16	ND	ND	ND	
1(S)-THD (s-THD)	0.013	0.041	ND	ND	ND	
1(R)-THD (r-THD)	0.025	0.075	ND	ND	ND	
Tetrahydrocannabinol (THCV)	0.001	0.16	ND	ND	ND	
Δ8-tetrahydrocannabinol (Δ8-THCV)	0.021	0.064	ND	ND	ND	
Tetrahydrocannabinol (Δ9-THCB)	0.013	0.038	ND	ND	ND	
Cannabinol (CBN)	0.001	0.16	0.89	8.87	22.17	
Cannabidiophorol (CBDP)	0.015	0.047	ND	ND	ND	
exo-THC (exo-THC)	0.016	0.8	ND	ND	ND	
Tetrahydrocannabinol (Δ9-THC)	0.003	0.16	UI	UI	UI	
Δ8-tetrahydrocannabinol (Δ8-THC)	0.004	0.16	76.63	766.32	1915.80	
(6aR,9S)-Δ10-Tetrahydrocannabinol ((6aR,9S)-Δ10)	0.015	0.16	<LOQ	<LOQ	<LOQ	
Hexahydrocannabinol (S Isomer) (9s-HHC)	0.017	0.16	ND	ND	ND	
(6aR,9R)-Δ10-Tetrahydrocannabinol ((6aR,9R)-Δ10)	0.007	0.16	1.11	11.13	27.83	
Hexahydrocannabinol (R Isomer) (9r-HHC)	0.016	0.16	ND	ND	ND	
Tetrahydrocannabinolic Acid (THCA)	0.001	0.16	ND	ND	ND	
Δ9-Tetrahydrocannabinolhexol (Δ9-THCH)	0.024	0.071	ND	ND	ND	
Cannabinol Acetate (CBNO)	0.014	0.043	ND	ND	ND	
Δ9-Tetrahydrocannabinophorol (Δ9-THCP)	0.017	0.16	ND	ND	ND	
Δ8-Tetrahydrocannabinophorol (Δ8-THCP)	0.041	0.16	ND	ND	ND	
Δ8-THC-O-acetate (Δ8-THCO)	0.076	0.16	ND	ND	ND	
9(S)-HHCP (s-HHCP)	0.031	0.094	ND	ND	ND	
Δ9-THC-O-acetate (Δ9-THCO)	0.066	0.16	ND	ND	ND	
9(R)-HHCP (r-HHCP)	0.026	0.079	ND	ND	ND	
3-octyl-Δ8-Tetrahydrocannabinol (Δ8-THC-C8)	0.067	0.204	ND	ND	ND	
Total THC ( THCa * 0.877 + Δ9THC )			ND	ND	ND	
Total THC + Δ8THC + Δ10THC ( THCa * 0.877 + Δ9THC + Δ8THC + Δ10THC )			77.75	777.46	1943.64	
Total CBD ( CBDA * 0.877 + CBD )			ND	ND	ND	
Total CBG ( CBGA * 0.877 + CBG )			ND	ND	ND	
Total HHC ( 9r-HHC + 9s-HHC )			ND	ND	ND	
Total Cannabinoids			78.63	786.32	1965.81	

**HME - Heavy Metals Detection Analysis**

Analyzed Dec 12, 2022 | Instrument ICP/MSMS | Method SOP-005

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	0.0005	<LOQ	0.2	Cadmium (Cd)	3.0e-05	0.0005	<LOQ	0.2
Mercury (Hg)	1.0e-05	0.0001	0.00	0.1	Lead (Pb)	1.0e-05	0.00125	<LOQ	0.5

**MIBIG - Microbial Testing Analysis**

Analyzed Dec 12, 2022 | Instrument qPCR and/or Plating | Method SOP-007

Analyte	Result CFU/g	Limit	Analyte	Result CFU/g	Limit
Shiga toxin-producing Escherichia Coli	ND	ND per 1 gram	Salmonella spp.	ND	ND per 1 gram
Aspergillus fumigatus	ND	ND per 1 gram	Aspergillus flavus	ND	ND per 1 gram
Aspergillus niger	ND	ND per 1 gram	Aspergillus terreus	ND	ND per 1 gram

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



Scan the QR code to verify authenticity.

Authorized Signature

*Brandon Starr*

Brandon Starr, Lab Manager  
 Wed, 14 Dec 2022 14:58:52 -0800

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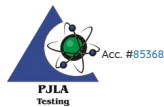
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MTO - Mycotoxin Testing Analysis

Analyzed Dec 12, 2022 | 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	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 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



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*Brandon Starr*

Brandon Starr, Lab Manager  
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