

PharmLabs San Diego Certificate of Analysis

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



Sample **Bubba Kush D8 Flower**

Sample ID	SD230718-070 (81344)	Matrix	Flower (Inhalable Cannabis Good)
Tested for	Top Shelf Hemp Co		
Sampled	-	Received	Jul 18, 2023
		Reported	Jul 20, 2023
Analyses executed	CAN+, MWA		

Laboratory note: The estimated concentration of the unknown peak in the sample is 0.90% | 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 (+)- δ^8 -THC or d^9 -THC. At this time there are no reference standards available for (+)- δ^8 -THC. (+)- δ^8 -THC is a different compound from the main (-)- δ^8 -THC cannabinoid and, therefore, these two compounds may have different efficacies. Using the most advanced instruments and techniques available, the separation of (+)- δ^8 -THC and d^9 -THC is problematic for the scientific community as a whole. PharmLabs believes the unidentified peak to be a combination of (+)- δ^8 -THC and d^9 -THC with the majority, if not all, of the concentration being (+)- δ^8 -THC. Total (+/-) δ^8 Concentration is estimated to be: 8.52%

* **CAN+ - Cannabinoids Analysis**

Analyzed Jul 20, 2023 | Instrument HPLC-VWD | Method SOP-001
 The expanded Uncertainty of the Cannabinoid analysis is approximately $\pm 8.06\%$ at the 95% Confidence Level

Analyte	LOD mg/g	LOQ mg/g	Result %	Result mg/g
Cannabidiol (CBD)	0.039	0.16	ND	ND
Cannabidiolic Acid (CBDA)	0.001	0.16	10.05	100.47
Cannabigerol Acid (CBGA)	0.001	0.16	0.84	8.40
Cannabigerol (CBG)	0.001	0.16	0.33	3.32
Cannabidiol (CBD)	0.001	0.16	2.69	26.94
Tetrahydrocannabinol (THCV)	0.001	0.16	ND	ND
Cannabinol (CBN)	0.001	0.16	ND	ND
Tetrahydrocannabinol (Δ^9 -THC)	0.003	0.16	UI	UI
Δ^8 -tetrahydrocannabinol (Δ^8 -THC)	0.004	0.16	8.52	85.20
Cannabicyclol (CBL)	0.002	0.16	ND	ND
Cannabichromene (CBC)	0.002	0.16	0.42	4.25
Tetrahydrocannabinolic Acid (THCA)	0.001	0.16	0.23	2.27
Total THC (THCa * 0.877 + Δ^9THC)			0.20	1.99
Total THC + Δ^8THC (THCa * 0.877 + Δ^9THC + Δ^8THC)			8.72	87.19
Total CBD (CBDA * 0.877 + CBD)			11.51	115.05
Total CBG (CBGA * 0.877 + CBG)			1.07	10.68
Total Cannabinoids			21.72	217.17

Sample photography



*Dry Weight %

MWA - Moisture Content & Water Activity Analysis

Analyzed Jul 19, 2023 | Instrument Chilled-mirror Dewpoint and Capacitance | Method SOP-008

Analyte	LOD %	LOQ %	Result	Limit	Analyte	LOD %	LOQ %	Result	Limit
Moisture (Moi)	0.0	0.0	8.5 % Mw	13 % Mw	Water Activity (WA)	0.03	0.03	0.58 a_w	0.85 a_w

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, 20 Jul 2023 13:06:04 -0700

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