

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 **Vitality**

Sample ID	SD221202-060 (56273)	Matrix	Flower (Inhalable Cannabis Good)
Tested for	Fern Valley Farms		
Sampled	-	Received	Dec 01, 2022
		Reported	Dec 12, 2022
Analyses executed	CAN+, TER, MWA		

Laboratory note: There is an unidentified peak detected in the chromatogram at retention time 2.489 minutes that is hypothesized to be CBDV-A. The estimated concentration of this unidentified peak is 8.78%.

***CAN+ - Cannabinoids Analysis**

Analyzed Dec 07, 2022 | Instrument HPLC-VWD | Method SOP-001
 Measurement Uncertainty at 95% confidence 7.806%

Analyte	LOD mg/g	LOQ mg/g	Result %	Result mg/g
Cannabidiol (CBD)	0.039	0.16	0.11	1.13
Cannabidiolic Acid (CBDA)	0.001	0.16	10.29	102.89
Cannabigerol Acid (CBGA)	0.001	0.16	0.53	5.29
Cannabigerol (CBG)	0.001	0.16	0.11	1.06
Cannabidiol (CBD)	0.001	0.16	0.15	1.52
Tetrahydrocannabivarin (THCV)	0.001	0.16	<LOQ	<LOQ
Cannabinol (CBN)	0.001	0.16	ND	ND
Tetrahydrocannabinol (Δ9-THC)	0.003	0.16	ND	ND
Δ8-tetrahydrocannabinol (Δ8-THC)	0.004	0.16	ND	ND
Cannabicyclol (CBL)	0.002	0.16	ND	ND
Cannabichromene (CBC)	0.002	0.16	ND	ND
Tetrahydrocannabinolic Acid (THCA)	0.001	0.16	0.43	4.33
Total THC (THCa * 0.877 + Δ9THC)			0.38	3.79
Total THC + Δ8THC (THCa * 0.877 + Δ9THC + Δ8THC)			0.38	3.79
Total CBD (CBDA * 0.877 + CBD)			9.18	91.76
Total CBG (CBGA * 0.877 + CBG)			0.57	5.70
Total Cannabinoids			10.24	102.39

*Dry Weight %

TER - Terpenes Testing Analysis

Analyzed Dec 05, 2022 | Instrument GC/FID | Method SOP-002

Analyte	LOD mg/g	LOQ mg/g	(%)	(mg/g)	Analyte	LOD mg/g	LOQ mg/g	(%)	(mg/g)
α-Pinene (α-Pin)	0.128	0.427	0.12	1.25	Camphene (Cam)	0.147	0.492	ND	ND
Myrcene (Myr)	0.073	0.244	0.87	8.70	b-Pinene (b-Pin)	0.413	1.377	0.12	1.23
3-Carene (3-Car)	0.11	0.366	ND	ND	α-Terpinene (α-Ter)	0.099	0.331	ND	ND
α-Cimene (α-Oci)	0.055	0.182	ND	ND	Limonene (Lim)	0.081	0.268	0.15	1.46
p-Cymene (p-Cym)	0.104	0.347	ND	ND	b-Ocimene (b-Oci)	0.085	0.282	0.30	2.97
Eucalyptol (Euc)	0.19	0.634	ND	ND	g-Terpinene (g-Ter)	0.108	0.361	ND	ND
Terpenolene (Terp)	0.119	0.395	ND	ND	Linalool (Lin)	0.146	0.487	0.19	1.92
Isopulegol (Isop)	0.139	0.464	ND	ND	Geraniol (Gera)	0.177	0.589	ND	ND
b-Caryophyllene (b-Cary)	0.132	0.44	0.61	6.13	α-Humulene (Hum)	0.183	0.608	ND	ND
cis-Nerolidol (ci-Ner)	0.129	0.431	ND	ND	trans-Nerolidol (tr-Ner)	0.093	0.31	ND	ND
Gualol (Gua)	0.15	0.499	0.17	1.75	Caryophyllene Oxide (CarOx)	0.183	0.611	ND	ND
α-bisabolol (α-Bbis)	0.159	0.529	ND	ND					
					Total Terpene Concentration			2.54 %	25.41 mg/g

MWA - Moisture Content & Water Activity Analysis

Analyzed Dec 02, 2022 | Instrument Chilled-mirror Dewpoint and Capacitance | Method SOP-008

Analyte	Result	Limit	Analyte	Result	Limit
Moisture (Moi)	6.2 % Mw	13 % Mw	Water Activity (WA)	0.45 aw	0.85 aw

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
 Mon, 12 Dec 2022 15:01:08 -0800

PharmLabs San Diego | 3421 Hancock St, Second Floor, San Diego, CA 92110 | 619.356.0898 | ISO/IEC 17025:2017 Certification L17-427-1

*This report shall not be reproduced except in full, without the written approval of the lab. This report is for informational purposes only and should not be used to diagnose, treat or prevent any disease. Results are only for samples and batches indicated. Results are reported on an "as received" basis, unless indicated otherwise. When a Pass/Fail status is reported, that status is intended to be in accordance with federal, state and local laws which are required for the customer to be in compliance. The measurement of uncertainty is not included in the Pass/Fail evaluation unless explicitly required by federal, state or local laws and has been reported on the certificate of analysis. Measurement of uncertainty is available upon request.

