

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 37-190081G-001

PASSED AS CALIFORNIA INDUSTRIAL HEMP

Sample ID	SD200129-006 (36137)	Matrix	Hemp (Industrial)	Cultivar	Jack Pack
Company	Twisted Oak Seeds	Registration #	37-190081G	Email	egirard27@gmail.com
Sampler	Dept of Agriculture, Mark Lyles	Sampled	Jan 31, 2020 - 12:00 AM	Receiver	Vanessa Pinto
Address	2830 Miller Ranch Road, San Diego, CA 91978	GPS	32.715772, -116.933795	Received	Jan 30, 2020
Analyses executed	CAN	Acreage	1400 sq ft	Reported	Feb 12, 2020

Laboratory note: Tested by: Karina Pimentel - 1-30-2020- made amendment to the COA and changed Cultivar 2/12/2020 VLP

CAN - Cannabinoids Analysis

Analyzed Jan 31, 2020 | Instrument HPLC-VWD | Method SOP-001

The expanded Uncertainty of the Cannabinoid analysis is approximately 7.806% at the 95% Confidence Level

Analyte	LOD mg/g	LOQ mg/g	Result %	Result mg/g	Sample photography
Cannabidiolic Acid (CBDA)	0.001	0.16	4.89	48.88	
Cannabigerol (CBG)	0.001	0.16	ND	ND	
Cannabidiol (CBD)	0.001	0.16	0.77	7.73	
Cannabinol (CBN)	0.001	0.16	ND	ND	
Tetrahydrocannabinol (Δ9-THC)	0.003	0.16	0.07	0.69	
Δ8-tetrahydrocannabinol (Δ8-THC)	0.004	0.16	NT	NT	
(6aR,9S)-Δ10-Tetrahydrocannabinol ((6aR,9S)-Δ10)	0.015	0.16	NT	NT	
(6aR,9R)-Δ10-Tetrahydrocannabinol ((6aR,9R)-Δ10)	0.007	0.16	NT	NT	
Tetrahydrocannabinolic Acid (THCA)	0.001	0.16	0.16	1.64	
Total THC ( THCa * 0.877 + Δ9THC )			0.21	2.13	
Total CBD ( CBDA * 0.877 + CBD )			5.06	50.60	
Total Cannabinoids Analyzed			5.27	52.73	

UI Unidentified  
ND Not Detected  
N/A Not Applicable  
NT Not Reported  
LOD Limit of Detection  
<LOQ Detected  
>ULOL Above upper limit of linearity  
CFU/g Colony Forming Units per 1 gram  
TNTC Too Numerous to Count



DCC license: C8-0000098-LIC  
DEA license: RP0611043  
ISO/IEC 17025:2017 Acc. L17-427-1



Scan the QR code to verify authenticity.

Authorized Signature

Clarence Gillett

Dr. Clarence Gillett, PhD, VP of Scientific Operations  
Wed, 12 Feb 2020 14:08:24 -0800



PharmLabs San Diego | 3421 Hancock St, Second Floor, San Diego, CA 92110 | 619.356.0898 | ISO/IEC 17025:2017 Acc. 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 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.