

PharmLabs San Diego Certificate of Analysis



Sample Cutleaf Duos Pop & Dab - Mango Pineapple OG (Dab)

Delta9 THC ND	THCa ND	Total THC (THCa * 0.877 + THC) ND	Delta8 THC ND
---------------	---------	-----------------------------------	---------------

Sample ID SD250208-016 (106819)	Matrix Concentrate	Batch ID N06278 - 25033A
Tested for Bluestone USA, Inc.		
Sampled -	Received Feb 07, 2025	Reported Mar 13, 2026
Analyses executed CANX, RES, MIBIG, MICX, MTO, PES, HME, FVI		

Laboratory note: COA Update: 3/13/26 - "Test for" updated per client request.

CANx - Cannabinoids

Analyzed Mar 04, 2025 | Instrument HPLC-VWD | Method SOP-001
 The expanded Uncertainty of the Cannabinoids analysis is approximately ±7.81% at the 95% Confidence Level

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)	0.006	0.02	ND	ND	
Abnormal Cannabidiol (a-CBDO)	0.013	0.038	ND	ND	
(+/-)-9B-Hydroxy-Hexahydrocannabinol (9b-HHC)	0.015	0.045	ND	ND	
11-Hydroxy-Δ8-Tetrahydrocannabinol (11-Hyd-Δ8-THC)	0.015	0.045	ND	ND	
Cannabidiolic Acid (CBDA)	0.033	0.16	0.79	7.86	
Cannabigerol Acid (CBGA)	0.033	0.16	<LOQ	<LOQ	
Cannabigerol (CBG)	0.048	0.16	0.80	8.04	
Cannabidiol (CBD)	0.069	0.229	81.98	819.85	
1(S)-Tetrahydrocannabinol (1(S)-H4-CBD)	0.008	0.026	ND	ND	
1(R)-Tetrahydrocannabinol (1(R)-H4-CBD)	0.016	0.049	ND	ND	
Tetrahydrocannabinol (THCV)	0.049	0.162	ND	ND	
Δ8-tetrahydrocannabinol (Δ8-THCV)	0.021	0.064	ND	ND	
Cannabidiol (CBDH)	0.014	0.042	ND	ND	
Tetrahydrocannabinol (Δ9-THCB)	0.01	0.029	ND	ND	
Cannabinol (CBN)	0.047	0.16	0.34	3.40	
Cannabidiophorol (CBDP)	0.016	0.049	ND	ND	
exo-THC (exo-THC)	0.016	0.8	ND	ND	
Tetrahydrocannabinol (Δ9-THC)	0.092	0.307	ND	ND	
Δ8-tetrahydrocannabinol (Δ8-THC)	0.044	0.16	ND	ND	
(6aR,9S)-Δ10-Tetrahydrocannabinol ((6aR,9S)-Δ10)	0.015	0.8	ND	ND	
Hexahydrocannabinol (S Isomer) (9s-HHC)	0.017	0.8	ND	ND	
(6aR,9R)-Δ10-Tetrahydrocannabinol ((6aR,9R)-Δ10)	0.007	0.8	ND	ND	
Hexahydrocannabinol (R Isomer) (9r-HHC)	0.016	0.8	ND	ND	
Tetrahydrocannabinolic Acid (THCA)	0.117	0.389	ND	ND	
Δ9-Tetrahydrocannabinol (Δ9-THCH)	0.02	0.061	ND	ND	
Cannabinol Acetate (CBNO)	0.009	0.027	ND	ND	
9(S)-Hexahydrocannabinolic Acid (9(S)-HHCa)	0.063	0.065	ND	ND	
9(R)-Hexahydrocannabinolic Acid (9(R)-HHCa)	0.191	0.196	ND	ND	
Δ9-Tetrahydrocannabinol (Δ9-THCP)	0.017	0.8	6.49	64.94	
Δ8-Tetrahydrocannabinol (Δ8-THCP)	0.041	0.8	ND	ND	
Cannabicitran (CBT)	0.005	0.16	ND	ND	
Δ8-THC-O-acetate (Δ8-THCO)	0.076	0.8	ND	ND	
9(S)-HHCP (s-HHCP)	0.013	0.041	ND	ND	
Δ9-THC-O-acetate (Δ9-THCO)	0.066	0.8	ND	ND	
9(R)-HHCP (r-HHCP)	0.015	0.045	ND	ND	
9(S)-HHC-O-acetate (s-HHCO)	0.037	0.112	ND	ND	
9(R)-HHC-O-acetate (r-HHCO)	0.031	0.093	ND	ND	
3-octyl-Δ8-Tetrahydrocannabinol (Δ8-THC-C8)	0.021	0.062	ND	ND	
Total THC (THCa * 0.877 + Δ9THC)			ND	ND	
Total THC + Δ8THC + Δ10THC (THCa * 0.877 + Δ9THC + Δ8THC + Δ10THC)			ND	ND	
Total CBD (CBDA * 0.877 + CBD)			82.67	826.74	
Total CBG (CBGa * 0.877 + CBG)			0.80	8.04	
Total HHC (9r-HHC + 9s-HHC)			ND	ND	
Total Cannabinoids Analyzed			90.31	903.12	

HME - Heavy Metals

Analyzed Mar 07, 2025 | Instrument ICP/MSMS | Method SOP-005

Analyte	LOD ug/g	LOQ ug/g	Result ug/g	Limit ug/g
Arsenic (As)	0.0009	0.0027	ND	1.5
Cadmium (Cd)	0.0005	0.0015	ND	0.5
Mercury (Hg)	0.0058	0.0174	ND	3
Lead (Pb)	0.0006	0.0018	ND	0.5

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



DEA license: RP0611043
 ISO/IEC 17025:2017 Acc. 85368



Scan the QR code to verify authenticity.

Authorized Signature

Brandon Starr

Brandon Starr, Quality Assurance Manager
 Fri, 13 Mar 2026 16:57:20 -0700

PharmLabs San Diego | 6696 Mesa Ridge Rd #A, San Diego, CA 92121 | 619.356.0898 | ISO/IEC 17025:2017 Acc. 85368



PharmLabs hereby states that its Certificates of Analysis (COA) do not certify compliance with any federal, state, or local law or regulation, including but not limited to the 2018 Form Bill. This COA is provided solely for informational purposes and is not intended for reliance by consumers or purchasers of a product. This report shall not be reproduced, except in full, without the prior written approval of PharmLabs. This report is not intended to diagnose, treat, cure, or prevent any disease. Results apply only to the specific sample(s) and batch(es) identified on this COA and do not represent any other lot, batch, or product from the client. Measurement of uncertainty is available upon request and, when legally required, has been reported on the certificate. PharmLabs makes no representation or warranty, express or implied, regarding the tested product's safety, efficacy, quality, merchantability, or fitness for a particular purpose. PharmLabs expressly disclaims any liability for damages, claims, costs, or expenses arising out of the use, misuse, or reliance upon this COA by any party. PharmLabs relies on information provided by the client regarding the identity, sampling, and chain of custody of the submitted material. PharmLabs assumes no responsibility for errors, omissions, or misrepresentations in such information. It is the sole responsibility of the client to determine and ensure the compliance of their product(s) with all applicable federal, state, and local laws and regulations. This COA may not be used in whole or in part for marketing, advertising, promotional, or labeling purposes without the prior written consent of PharmLabs. This COA is valid only as of the date of issuance and does not guarantee the stability or continued conformity of the tested product beyond that date. Any dispute arising out of or related to this COA shall be governed by the laws of the State of California, without regard to its conflict of laws principles.

MIBIG - Microbial

Analyzed Mar 06, 2025 | Instrument Plating | Method SOP-007

Analyte	LOD CFU/g	LOQ CFU/g	Result CFU/g	Limit CFU/g
Shiga toxin-producing Escherichia Coli	1.0	1.0	ND	1
Salmonella spp.	1.0	1.0	ND	1
Aspergillus fumigatus	1.0	1.0	ND	1
Aspergillus flavus	1.0	1.0	ND	1
Aspergillus niger	1.0	1.0	ND	1
Aspergillus terreus	1.0	1.0	ND	1

MTO - Mycotoxin

Analyzed Mar 04, 2025 | Instrument LC/MSMS | Method SOP-004

Analyte	LOD ug/kg	LOQ ug/kg	Result ug/kg	Limit ug/kg	Analyte	LOD ug/kg	LOQ ug/kg	Result ug/kg	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 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



DEA license: **RP0611043**
 ISO/IEC 17025:2017 Acc. 85368



Scan the QR code to verify authenticity.

Authorized Signature

Brandon Starr

Brandon Starr, Quality Assurance Manager
 Fri, 13 Mar 2026 16:57:20 -0700

PharmLabs San Diego | 6696 Mesa Ridge Rd #A, San Diego, CA 92121 | 619.356.0898 | ISO/IEC 17025:2017 Acc. 85368



PharmLabs hereby states that its Certificates of Analysis (COA) do not certify compliance with any federal, state, or local law or regulation, including but not limited to the 209 Form Bill. This COA is provided solely for informational purposes and is not intended for reliance by consumers or purchasers of a product. This report shall not be reproduced, except in full, without the prior written approval of PharmLabs. This report is not intended to diagnose, treat, cure, or prevent any disease. Results apply only to the specific sample(s) and batch(es) identified on this COA and do not represent any other lot, batch, or product from the client. Measurement of uncertainty is available upon request and, when legally required, has been reported on the certificate. PharmLabs makes no representation or warranty, express or implied, regarding the tested product's safety, efficacy, quality, merchantability, or fitness for a particular purpose. PharmLabs expressly disclaims any liability for damages, claims, costs, or expenses arising out of the use, misuse, or reliance upon this COA by any party. PharmLabs relies on information provided by the client regarding the identity, sampling, and chain of custody of the submitted material. PharmLabs assumes no responsibility for errors, omissions, or misrepresentations in such information. It is the sole responsibility of the client to determine and ensure the compliance of their product(s) with all applicable federal, state, and local laws and regulations. This COA may not be used in whole or in part for marketing, advertising, promotional, or labeling purposes without the prior written consent of PharmLabs. This COA is valid only as of the date of issuance and does not guarantee the stability or continued conformity of the tested product beyond that date. Any dispute arising out of or related to this COA shall be governed by the laws of the State of California, without regard to its conflict of laws principles.

PES - Pesticides

Analyzed Mar 04, 2025 | Instrument LC/MSMS GC/MSMS | Method SOP-003

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
Aldicarb	0.01	0.02	ND		Carbofuran	0.01	0.02	ND	
Dimethoate	0.01	0.02	ND		Etofenprox	0.02	0.1	ND	
Fenoxycarb	0.01	0.02	ND		Thiachloprid	0.01	0.02	ND	
Daminozide	0.01	0.03	ND		Dichlorvos	0.02	0.07	ND	
Imazalil	0.02	0.07	ND		Methiocarb	0.01	0.02	ND	
Spiroxamine	0.01	0.02	ND		Coumaphos	0.01	0.02	ND	
Fipronil	0.01	0.1	ND		Paclobutrazol	0.01	0.03	ND	
Chlorpyrifos	0.01	0.04	ND		Ethoprophos (Prophos)	0.01	0.02	ND	
Baygon (Propoxur)	0.01	0.02	ND		Chlordane	0.04	0.1	ND	
Chlorfenapyr	0.03	0.1	ND		Methyl Parathion	0.02	0.1	ND	
Mevinphos	0.03	0.08	ND		Abamectin	0.03	0.08	ND	
Acephate	0.02	0.05	ND		Acetamiprid	0.01	0.05	ND	
Azoxystrobin	0.01	0.02	ND		Bifenazate	0.01	0.05	ND	
Bifenthrin	0.02	0.35	ND		Boscalid	0.01	0.03	ND	
Carbaryl	0.01	0.02	ND		Chlorantranilprole	0.01	0.04	ND	
Clofentezine	0.01	0.03	ND		Diazinon	0.01	0.02	ND	
Dimethomorph	0.02	0.06	ND		Etoxazole	0.01	0.05	ND	
Fenpyroximate	0.02	0.1	ND		Fonicamid	0.01	0.02	ND	
Fludioxonil	0.01	0.05	ND		Hexythiazox	0.01	0.03	ND	
Imidacloprid	0.01	0.05	ND		Kresoxim-methyl	0.01	0.03	ND	
Malathion	0.01	0.05	ND		Metalaxyl	0.01	0.02	ND	
Methomyl	0.02	0.05	ND		Myclobutanil	0.02	0.07	ND	
Naled	0.01	0.02	ND		Oxamyl	0.01	0.02	ND	
Permethrin	0.01	0.02	ND		Phosmet	0.01	0.02	ND	
Piperonyl Butoxide	0.02	0.06	ND		Propiconazole	0.03	0.08	ND	
Prallethrin	0.02	0.05	ND		Pyrethrin	0.05	0.41	ND	
Pyridaben	0.02	0.07	ND		Spinosad A	0.01	0.05	ND	
Spinosad D	0.01	0.05	ND		Spiromesifen	0.02	0.06	ND	
Spirotetramat	0.01	0.02	ND		Tebuconazole	0.01	0.02	ND	
Thiamethoxam	0.01	0.02	ND		Trifloxystrobin	0.01	0.02	ND	
Acequinocyl	0.02	0.09	ND		Captan	0.01	0.02	ND	
Cypermethrin	0.02	0.1	ND		Cyfluthrin	0.04	0.1	ND	
Fenhexamid	0.02	0.07	ND		Spinetoram J.L	0.02	0.07	ND	
Pentachloronitrobenzene	0.01	0.1	ND		Chlormequat Chloride	0.02	0.1	ND	

RES - Residual Solvents

Analyzed Mar 11, 2025 | Instrument GC/FID with Headspace Analyzer | Method SOP-006

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
Propane (Prop)	0.044	0.4	82.0	5000	Butane (But)	0.02	0.4	86.7	5000
Methanol (Metha)	1.176	3.92	63.4	3000	Ethylene Oxide (EthOx)	0.08	0.4	90.2	1
Pentane (Pen)	0.024	0.4	ND	5000	Ethanol (Ethanol)	0.048	0.4	109.5	5000
Ethyl Ether (EthEt)	0.036	0.4	ND	5000	Acetone (Acet)	0.044	0.4	138.0	5000
Isopropanol (2-Pro)	1.16	3.868	117.6	5000	Acetonitrile (Acetonit)	0.888	2.952	<LOQ	410
Methylene Chloride (MetCh)	0.04	0.4	ND	1	Hexane (Hex)	0.012	0.4	81.3	290
Ethyl Acetate (EthAc)	0.032	0.4	ND	5000	Chloroform (Clo)	0.028	0.4	ND	1
Benzene (Ben)	0.012	0.4	ND	1	1,2-Dichloroethane (1,2-Dich)	0.024	0.4	ND	1
Heptane (Hep)	0.012	0.4	ND	5000	Trichloroethylene (TriClEth)	0.072	0.4	ND	1
Toluene	0.036	0.4	70.2	890	Xylenes (Xyl)	0.012	0.4	ND	2170

FVI - Filth & Foreign Material Inspection

Analyzed Mar 04, 2025 | Instrument Microscope | Method SOP-010

Analyte / Limit	Result	Analyte / Limit	Result
> 1/4 of the total sample area covered by sand, soil, cinders, or dirt	ND	> 1/4 of the total sample area covered by mold	ND
> 1 insect fragment, 1 hair, or 1 count mammalian excreta per 3g	ND	> 1/4 of the total sample area covered by an imbedded foreign material	ND

MICx - Microbial X

Analyzed Mar 06, 2025 | Instrument Plating | Method SOP-007

Analyte	LOD CFU/G	LOQ CFU/G	Result CFU/G	Limit CFU/G
Total Yeast & Molds (TYM)	1.0	1.0	ND	
Listeria (LIS)	1.0	1.0	ND	
Gram Negative Bacteria (BTGN)	1.0	1.0	ND	
Total Viable Aerobic Bacteria (TVAB)	1.0	1.0	ND	

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



DEA license: RP0611043
 ISO/IEC 17025:2017 Acc. 85368



Scan the QR code to verify authenticity.

Authorized Signature

Brandon Starr

Brandon Starr, Quality Assurance Manager
 Fri, 13 Mar 2026 16:57:20 -0700

PharmLabs San Diego | 6696 Mesa Ridge Rd #A, San Diego, CA 92121 | 619.356.0898 | ISO/IEC 17025:2017 Acc. 85368



PharmLabs hereby states that its Certificates of Analysis (COA) do not certify compliance with any federal, state, or local law or regulation, including but not limited to the 209 Form Bill. This COA is provided solely for informational purposes and is not intended for reliance by consumers or purchasers of a product. This report shall not be reproduced, except in full, without the prior written approval of PharmLabs. This report is not intended to diagnose, treat, cure, or prevent any disease. Results apply only to the specific sample(s) and batch(es) identified on this COA and do not represent any other lot, batch, or product from the client. Measurement of uncertainty is available upon request and, when legally required, has been reported on the certificate. PharmLabs makes no representation or warranty, express or implied, regarding the tested product's safety, efficacy, quality, merchantability, or fitness for a particular purpose. PharmLabs expressly disclaims any liability for damages, claims, costs, or expenses arising out of the use, misuse, or reliance upon this COA by any party. PharmLabs relies on information provided by the client regarding the identity, sampling, and chain of custody of the submitted material. PharmLabs assumes no responsibility for errors, omissions, or misrepresentations in such information. It is the sole responsibility of the client to determine and ensure the compliance of their product(s) with all applicable federal, state, and local laws and regulations. This COA may not be used in whole or in part for marketing, advertising, promotional, or labeling purposes without the prior written consent of PharmLabs. This COA is valid only as of the date of issuance and does not guarantee the stability or continued conformity of the tested product beyond that date. Any dispute arising out of or related to this COA shall be governed by the laws of the State of California, without regard to its conflict of laws principles.