## SD230412-061 page 1 of 1

#### PharmLabs San Diego Certificate of Analysis

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#### sample Ocho Sundae Driver Bombers (H)

**QA** Testing



#### Sample ID SD230412-061 (72087) Matrix Flower (Inhalable Cannabis Good) Tested for Top Shelf Hemp Co Sampled -Received Apr 12, 2023 Reported Apr 13, 2023 Analyses executed CANX, MWA

Laboratory note: The estimated concentration of the unknown peak in the sample is 0.26% | 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 canobinoid and, therefore, these two compounds may have different efficacies. Using the most advanced instruments and techniques available in sestimated to be 1:30%. The canobinoid is estimated to be 1:30%.

#### CANX - Cannabinoids Analysis

Analyzed Apr 13, 2023 | Instrument HPLC-VWD | Method The expanded Uncertainty of the Cannabinoid analysis is approximately **3.81%** at the 95% Confidence Level

11-Hydroxy-A8-Tetrahydrocannabivarin (11-Hyd-A8-THCV)   0.013   0.014   ND   ND     Canabidiorcin (CBDO)   0.002   0.007   ND   ND     Abnormal Cannabidiorcin (a-CBDO)   0.01   0.013   ND   ND     (4-/-)-98-hydroxy-Hexahydrocannabinol (9b-HHC)   0.010   0.021   ND   ND     Cannabidioric Act (CBDA)   0.007   0.021   ND   ND     Cannabidiolic Acid (CBDA)   0.001   0.16   14.43   144.31     Cannabidior (Act (CBGA)   0.01   0.16   0.44   4.38     Cannabigerol (CBG)   0.01   0.16   0.04   0.39     Cannabidiol (CBDA)   0.01   0.16   0.04   0.39     Cannabidiol (CBGA)   0.01   0.16   0.04   0.39     Cannabidiol (CBGA)   0.01   0.16   0.04   0.39     Cannabidiol (CBGA)   0.01   0.01   0.01   0.01   0.01     (16)-THD)   0.01   0.01   ND   ND   ND     (16)-THD)   0.01   0.01   ND   ND     Tetrahydrocannabivarin (THCV)   0.01 </th <th>Analyte</th> <th>LOD mg/g</th> <th>LOQ mg/g</th> <th>Result %</th> <th>Result mg/g</th>	Analyte	LOD mg/g	LOQ mg/g	Result %	Result mg/g
Aborn discretic (CBD)NDNDND(1/2) *29 Mignar Marked physicana bind (N+Hy fA THC)0070.05MD(1/2) *20 Mignar Marked Physicana bind (N+Hy fA THC)0000.05MAConsidiation (Add (CBA))0.000.04MDMDConsidiation (Add (CBA))0.000.05MDMDConsidiation (Add (CBA))0.000.04MDMDConsidiation (Add (CBA))0.000.04MDMDConsidiation (Add (CBA))0.050.04MDMDConsidiation (CBA)0.050.04MDMDConsidiation (CBA)0.050.04MDMD(1/2) *100 (CHA)0.050.04MDMD(1/2) *100 (CHA)0.050.04MDMD(1/2) *100 (CHA)0.050.04MDMD(1/2) *100 (CHA)0.050.05MDMD(1/2) *100 (CHA)0.050.05MDMD(1/2) *100 (CHA)0.050.05MDMD(1/2) *100 (CHA)0.050.05MDMD(1/2) *100 (CHA)0.050.05MDMD(1/2) *100 (CHA)0.05MDMDMD(1/2) *100 (CHA)0.05MDMDMD(1/2) *100 (CHA)0.05MDMDMD(1/2) *100 (CHA)0.05MDMDMD(1/2) *100 (CHA)0.05MDMDMD(1/2) *100 (CHA)MDMDMDMD <t< td=""><td>11-Hydroxy-Δ8-Tetrahydrocannabivarin (11-Hyd-Δ8-THCV)</td><td>0.013</td><td></td><td>ND</td><td>ND</td></t<>	11-Hydroxy-Δ8-Tetrahydrocannabivarin (11-Hyd-Δ8-THCV)	0.013		ND	ND
(r)-198.pdfsqup,Headpring0.000.00NDLingtrague,Headpring0.000.010.010.01Concollabile Add (CBDA)0.000.010.020.020.02Concollabile Add (CBDA)0.000.050.044.53Concollabile Add (CBDA)0.000.050.044.53Concollabile Add (CBDA)0.000.050.044.00Concollabile Add (CBDA)0.000.050.044.00Concollabile Add (CBDA)0.050.050.050.06NDUp,THD (-THD)0.050.050.05NDNDTerrebuikt Concollabile Add (CBDA)0.050.05NDNDTerrebuikt Concollabile Add (CBDA)0.050.05NDNDConcollabile Add (CBDA)0.050.05NDNDConcollabile Add (CBDA)0.050.04NDNDConcollabile Add (CBDA)0.050.04NDNDConcollabile Add (CBDA)0.050.04NDNDConcollabile Add (CBDA)0.050.04NDNDConcollabile Add (CBDA)0.050.05NDNDConcollabile Add (CBDA)0.050.05NDNDConcollabile Add (CBDA)0.050.05NDNDConcollabile Add (CBDA)0.050.05NDNDConcollabile Add (CBDA)0.050.05NDNDConcollabile Add (CBDA)0.050.05NDNDConcoll	Cannabidiorcin (CBDO)	0.002	0.007	ND	ND
1 Hugo and Fact hugo constraints0.0070.0070.01 <t< td=""><td>Abnormal Cannabidiorcin (a-CBDO)</td><td>0.01</td><td>0.031</td><td>ND</td><td>ND</td></t<>	Abnormal Cannabidiorcin (a-CBDO)	0.01	0.031	ND	ND
Combined Add (CBA)0.0010.6614.4314.43Combined Add (CBA)0.0010.660.444.38Combined Add (CBA)0.0010.660.940.93Combined Add (CBA)0.0010.060.989.79YS, THD (CFHD)0.0250.027NONDTarribytic0.0210.054NDNDTarribytic0.0210.054NDNDTarribytic0.0210.054NDNDTarribytic0.0210.054NDNDCombined (MPTO)0.0510.059NDNDCombined (MPTO)0.0510.056NDNDCombined (MPTO)0.0510.056NDNDCombined (MPTO)0.0510.056NDNDCombined (CBD)0.0510.056NDNDCombined (CBD)0.0510.056NDNDCombined (CBD)0.0510.056NDNDCombined (CBD)0.0510.056NDNDCombined (CBD)0.0510.056NDNDCombined (CBD)0.0570.05NDNDCombined (CBD)0.057NDNDNDCombined (CBD)0.057NDNDNDCombined (CBD)0.057NDNDNDCombined (CBD)0.057NDNDNDCombined (CBD)0.057NDNDNDCombined (CBD)0.057NDNDN	(+/-)-9B-hydroxy-Hexahydrocannibinol (9b-HHC)	0.012	0.036	ND	ND
Canadagian (JGBA)0.010.140.440.43Canadagian (JGBA)0.030.040.090.150.73Sty-HD (F-HD)0.030.041NDNDNy-HD (F-HD)0.030.041NDNDTernsbyscannabian (JG-HKV)0.030.041NDNDSternsbyscannabian (JG-HKV)0.050.05NDNDCanada (DDH)0.050.05NDNDNDCanada (DDH)0.050.06NDNDNDCanada (DDH)0.050.06NDNDNDCanada (DDH)0.050.06NDNDNDCanada (DDH)0.050.06NDNDNDCanada (DDH)0.050.06NDNDNDCanada (DDH)0.060.06NDNDNDCanada (DDH)0.060.06NDNDND <td>11-Hydroxy-Δ8-Tetrahydrocannabinol (11-Hyd-Δ8-THC)</td> <td>0.007</td> <td>0.021</td> <td>ND</td> <td>ND</td>	11-Hydroxy-Δ8-Tetrahydrocannabinol (11-Hyd-Δ8-THC)	0.007	0.021	ND	ND
Camabian0.010.140.030.040.93Camabian0.050.041NDNDK9, THD (c-THD)0.050.041NDNDK9, THD (c-THD)0.050.075NDNDCamabian0.050.075NDNDCamabian0.050.075NDNDCamabian0.050.075NDNDCamabian0.050.044NDNDCamabian0.050.045NDNDCamabian0.050.047NDNDCamabian0.050.047NDNDCamabian0.050.047NDNDCamabian0.050.047NDNDCamabian0.050.047NDNDCamabian0.050.04NDNDCamabian0.050.04NDNDCamabian0.050.04NDNDCamabian0.050.04NDNDCamabian0.050.04NDNDCamabian0.050.04NDNDCamabian0.050.05NDNDCamabian0.060.05NDNDCamabian0.060.05NDNDCamabian0.060.05NDNDCamabian0.060.05NDNDCamabian0.060.05NDNDCamabian0.060.05NDND<	Cannabidiolic Acid (CBDA)	0.001	0.16	14.43	144.31
Connection(CBD)0.010.640.989.78VB)-FH0 (-FH0)0.050.05NDNDVB)-FH0 (-FH0)0.050.05NDNDVB-Th0 (ACC)0.0510.051NDNDVB-Th0 (ACC)0.0510.051NDNDVB-Th0 (ACC)0.0510.051NDNDVB-Th0 (ACC)0.0510.051NDNDVB-Th0 (ACC)0.0510.051NDNDConnection(CBD)0.0510.051NDNDConnection(CBD)0.0510.05NDNDConnection(CBD)0.0510.05NDNDConnection(CBD)0.050.16NDNDConnection(CBD)0.050.16NDNDConnection(CBD)0.050.16NDNDConnection(CBD)0.050.16NDNDVB (CBR)-MD0.050.16NDNDVB (CBR)-MD0.050.16NDNDVB (CBR)-MD0.060.16NDNDVB (CBR)-MD0.060.16NDNDVB (CBR)-MD0.070.16NDNDVB (CBR)-MD0.060.06NDNDVB (CBR)-MD0.060.06NDNDVB (CBR)-MD0.060.06NDNDVB (CBR)-MD0.060.06NDNDVB (CBR)-MD0.060.06NDNDVB (CBR)-MD0.060.06 <t< td=""><td>Cannabigerol Acid (CBGA)</td><td>0.001</td><td>0.16</td><td>0.44</td><td>4.38</td></t<>	Cannabigerol Acid (CBGA)	0.001	0.16	0.44	4.38
No.NO.NO.NO.NO.NO.111111111111111111111111111111111111	Cannabigerol (CBG)	0.001	0.16	0.04	0.39
\u00effy\u00effy\u00effy\u00effy\u00effy\u00effyTerrahydrocanabivari (16/TV)0.0010.0020.064\u00effy\u00effyCanadiabaol (260H)0.0020.0030.0030.003\u00effy\u00effyTerrahydrocanabivari (16/TV)0.0030.0130.003\u00effy\u00effy\u00effyCanadiabaol (260H)0.0150.047\u00effy <t< td=""><td>Cannabidiol (CBD)</td><td>0.001</td><td>0.16</td><td>0.98</td><td>9.79</td></t<>	Cannabidiol (CBD)	0.001	0.16	0.98	9.79
Tertong/reconsolabions/ (M-THCV)0.0010.016NDAB-tertong/reconsolabions/ (AB-THCV)0.0020.064NDConsolabilations (CBDF)0.0050.0150.008NDTertong/reconsolations (AB-THCS)0.0010.0150.008NDConsolabilations (CBDP)0.0050.047NDNDConsolabilations (CBDP)0.0050.047NDNDConsolabilations (CBDP)0.0050.047NDNDConsolabilations (CBDP)0.0050.047NDNDConsolabilations (CBDP)0.0050.05NDNDTertong/reconsolabions (AB-THC)0.0050.06NDNDConsolabilations (MC, MS)-ADD0.0150.05NDNDHeading/reconsolabions (MC, MS)-ADD0.016NDNDNDHeading/reconsolabions (MC, MS)-ADD0.016NDNDNDHeading/reconsolabions (MC, MS)-ADD0.016NDNDNDHeading/reconsolabions (MC, MS)-ADD0.016NDNDNDHeading/reconsolabions (MC, MS)-ADD0.016NDNDNDHeading/reconsolabions (MC, MS)-ADD0.016NDNDNDHeading/reconsolabions (MC, MS)-ADD0.016NDNDNDAD-Tertong/reconsolabions (MC, MS)-ADD0.016NDNDNDAD-Tertong/reconsolabions (MC, MS)-ADD0.016NDNDNDAD-Tertong/reconsolabions (MS-THCS)0.016NDNDND<	1(S)-THD (s-THD)	0.013	0.041	ND	ND
Abternally consubiency (Ab-THCV)0.0210.044NDNDCannabidihaces (CBBD)0.0550.045NDNDCannabidihaces (CBBD)0.0510.0550.047NDNDCannabidihaces (CBBC)0.0550.047NDNDconsubicity (CBCP)0.0550.047NDNDconsubicity (CBCP)0.0550.047NDNDconsubicity (CBCP)0.0550.047NDNDconsubicity (CBCP)0.0550.046NDNDconsubicity (CBCP)0.0550.046NDNDconsubicity (CBCP)0.0550.046NDNDconsubicity (CBCP)0.050.050.05NDNDconsubicity (CBCP)0.050.05NDNDNDconsubicity (CBCP)0.050.05NDNDNDconsubicity (CBCP)0.06NDNDNDNDconsubicity (CBCP)0.06NDNDNDNDconsubicity (CBCP)0.06NDNDNDNDconsubicity (CBCP)0.070.06NDNDNDconsubicity (CBCP)0.070.06NDNDNDconsubicity (CBCP)0.06NDNDNDNDconsubicity (CBCP)0.06NDNDNDNDconsubicity (CBCP)0.06NDNDNDNDconsubicity (CBCP)0.06NDNDNDNDconsu	1(R)-THD (r-THD)	0.025	0.075	ND	ND
Canabia     Canabia <t< td=""><td>Tetrahydrocannabivarin (THCV)</td><td>0.001</td><td>0.16</td><td>ND</td><td>ND</td></t<>	Tetrahydrocannabivarin (THCV)	0.001	0.16	ND	ND
Tetrahydrocanabutol (Mo-THCB)0.0130.038NDNDConnobilphor (CBP)0.0150.047NDNDexo-THC (seo-THC)0.0050.16NDNDExtendy acconnobinol (Mo-THC)0.0050.16NDNDAb-tetrahydrocannobinol (Mo-THC)0.0170.16NDND(60R, SY)_ADO-Tetrahydrocannobinol (Mo-THC)0.0170.16NDND(60R, SY)_ADO-Tetrahydrocannobinol (Mo-THC)0.0170.16NDND(60R, SY)_ADO-Tetrahydrocannobinol (Mo-THC)0.0170.16NDND(60R, SY)_ADO-Tetrahydrocannobinol (Mo-THC)0.0160.16NDND(60R, SY)_ADO-Tetrahydrocannobinol (Mo-THC)0.0160.026NDND(60R, SY)_ADO-Tetrahydrocannobinol (Mo-THC)0.0160.026NDND(60R, SY)_ADO-Tetrahydrocannobinol (Mo-THC)0.0160.026NDND(60R, SY)_ADO-Tetrahydrocannobinol (Mo-THC)0.0160.05NDND(60R, SY)_ADO-Tetrahydrocannobinol (Mo-THC)0.0160.05NDND(60R, SY)_ADO-Tetrahydrocannobinol (Mo-THC)0.016NDNDND(60R, SY)_ADO-Tetrahydrocannobinol (Mo-THC)0.016NDNDND(60R, SY)_ADO-Tetrahydrocannobinol (Mo-THC)0.016NDNDND(60R, SY)_ADO-Tetrahydrocannobinol (Mo-THC)0.016NDNDND(60R, SY)_ADO-Tetrahydrocannobinol (Mo-THC)0.016NDNDND(60R, SY)_ADO-TETCH0.016 </td <td>Δ8-tetrahydrocannabivarin (Δ8-THCV)</td> <td>0.021</td> <td>0.064</td> <td>ND</td> <td>ND</td>	Δ8-tetrahydrocannabivarin (Δ8-THCV)	0.021	0.064	ND	ND
Cannabial (GBN)00010.616NDNDCannabial (GDP)0.0050.047NDNDCannabial (GDP)0.0050.048NDNDTetra (GDP)0.0050.16UUUCannabial (GDP)0.0050.16UUUCannabian (GDP)0.0050.16UUUCannabian (GDP)0.0050.16NDNDNDCannabian (GDP)0.0160.050.16NDNDCannabian (GDP)0.0070.16NDNDNDCannabian (GDP)0.0070.16NDNDNDCannabian (GDP)0.0070.16NDNDNDCannabian (GDP)0.0010.161.521.539NDCannabian (GDP)0.0010.0161.521.539NDNDCannabian (GDP)0.0170.16NDNDNDNDCannabian (GDP)0.0140.043NDNDNDNDCannabian (GDP)0.0140.045NDNDNDNDCannabian (GDP)0.0140.016NDNDNDNDNDNDNDCannabian (GDP)0.0160.016ND	Cannabidihexol (CBDH)	0.005	0.16	ND	ND
Cannabiliphoral (GBDP)0.0170.047NDNDexo-THC (seo-THC)0.0030.16UIUIexo-ThC (seo-ThC)0.0030.16UIUIAd-tertulydrocannabiol (Ab-THC)0.0050.16NDND(6xR3P5-3A)-Tertulydrocannabiol (GRAPF)-S0100.0150.16NDNDHexahydrocannabiol (GRAPF)-Al01-Tertulydrocannabiol (GRAPF)-Al01-Tertulydrocan	Tetrahydrocannabutol (Δ9-THCB)	0.013	0.038	ND	ND
exo-THC (exo-THC)     0.005     0.16     ND     ND       Tetrohydrocannabino (b0-THC)     0.003     0.16     UI     UI       Ab-tetrohydrocannabino (b0-THC)     0.005     0.16     ND     ND       (60R,95)-J01-Tetrohydrocannabino ((60R,95)-J01)     0.017     0.16     ND     ND       Hexabydrocannabino ((60R,95)-J01)     0.007     0.16     ND     ND       Ab-Tetrohydrocannabino ((60R,97)-J01)     0.016     0.16     ND     ND       Ab-Tetrohydrocannabino (J0,97     ND     ND     ND     ND       Ab-Tetrohydrocannabino (J0,97     0.16     ND     ND       Ab-Tetrohydrocannabino (J0,97     0.16     ND     ND       Ab-Tetrohydrocannabino (J0,97     0.16     ND	Cannabinol (CBN)	0.001	0.16	ND	ND
Tetrahydrocannabinol (Ab-THC) 0.003 0.16 UI UI   Ab-tetrahydrocannabinol (Ab-THC) 0.004 0.16 1.30 1.50   (Bor,RPS)-50.10-Tetrahydrocannabinol (GBA,RPS)-200) 0.017 0.16 ND ND   Hexahydrocannabinol (Sisomer) (9x-HHC) 0.007 0.16 ND ND   (GBA,RPS)-10-Tetrahydrocannabinol (GBA,RPS)-200) 0.06 0.16 ND ND   Hexahydrocannabinol (Sisomer) (9x-HHC) 0.001 0.16 14.52 145.19   Ab-Tetrahydrocannabinol (As-THC+) 0.001 0.16 ND ND   Connabinol Acid (THCA) 0.001 0.16 14.52 145.19   Ab-Tetrahydrocannabinol (As-THCP) 0.024 0.071 ND ND   Ab-Tetrahydrocannabinol (As-THCP) 0.016 ND ND ND   Ab-Tetrahydrocannabinol (As-THCP) 0.017 0.16 ND ND   Ab-Tetrahydrocannabinol (As-THCP) 0.017 0.16 ND ND   Ab-Tetrahydrocannabinol (As-THCP) 0.017 0.16 ND ND   Ab-Tetrahydrocannabinol (As-THCP) 0.016 ND ND ND   Ab-Tetrahydrocannabinol (As-THCP) 0.026 0.016 ND ND   Ab-THC-O-acetta (As-TH	Cannabidiphorol (CBDP)	0.015	0.047	ND	ND
A8-tetrahydrocannabinol (A8-THC) (60R,95)-A10-Tetrahydrocannabinol (50R,95)-A10) (60R,95)-A10-Tetrahydrocannabinol (50R,97)-A10) (60R,97)-A10-Tetrahydrocannabinol (618,97)-A10) (60R,97)-A10-Tetrahydrocannabinol (618,97)-A10) (60R,97)-A10-Tetrahydrocannabinol (80R,97)-A10) (60R,97)-A10-Tetrahydrocannabinol (80R,97)-A10) (60R,97)-A10-Tetrahydrocannabinol (80R,97)-A10) (60R,97)-A10-Tetrahydrocannabinol (80R,97)-A10) (60R,97)-A10-Tetrahydrocannabinol (80R,97)-A10) (80R,97)-A10-Tetrahydrocannabinol (80R,97)-A10) (80R,97)-A10-Tetrahydrocannabinol (80R,97)-A10) (80R,97)-A10-Tetrahydrocannabinol (80R,97)-A10) (80R,97)-A10-Tetrahydrocannabinol (80R,97)-A10) (80R,97)-A10-Tetrahydrocannabinol (80R,97)-A10) (80R,97)-A10-Tetrahydrocannabinol (80-THCH) (80-THCH) Cannabinol Acetate (80P,11CA) (80-THCP) (80-T	exo-THC (exo-THC)	0.005	0.16	ND	ND
(64R, 95). Júl)     0.015     0.16     ND     ND       Hexchydrocannabinol ((68, P, 9). Júl)     0.007     0.16     ND     ND       Hexchydrocannabinol ((54, PR). Júl)     0.007     0.16     ND     ND       Hexchydrocannabinol (68, PR). Júl)     0.007     0.16     ND     ND       Hexchydrocannabinol (48, PR). Júl)     0.016     0.16     ND     ND       Tetrohydrocannabinol (40, PR). Júl)     0.024     0.017     ND     ND       Ab-Tetrohydrocannabinol (49, PR). Júl)     0.044     0.043     ND     ND       Cannabinol Acetate (CBNO)     0.044     0.045     ND     ND       Cannabinol (49, PTHCP)     0.041     0.16     ND     ND       Cannabinol (49, PTHCP)     0.041     0.16     ND     ND       Cannabinol (48, PTHCP)     0.041     0.16     ND     ND       Cannabinol (48, PTHCP)     0.041     0.16     ND     ND       Sh-Tetrohydrocannabinploral (49, PTHCP)     0.05     0.16     ND     ND       Sh-Tetrohydrocannabinol (48, PTHCP) <td< td=""><td>Tetrahydrocannabinol (Δ9-THC)</td><td>0.003</td><td>0.16</td><td>UI</td><td>UI</td></td<>	Tetrahydrocannabinol (Δ9-THC)	0.003	0.16	UI	UI
Hexadydrocannabinal (S Isomer) (91HC)     0.017     0.16     ND     ND       (6aR, 9A)-Ath-Tetrahydrocannabinal (R Isomer) (91HC)     0.007     0.16     ND     ND       Hexadydrocannabinal (R Isomer) (91HC)     0.016     0.16     ND     ND       Hexadydrocannabinal (A Isomer) (91HC)     0.001     0.16     0.16     ND     ND       Ab-Tetrahydrocannabinal (A ITHCA)     0.001     0.043     0.001     0.043     ND     ND       Ab-Tetrahydrocannabinal (A ITHCA)     0.014     0.043     ND     ND     ND       Ab-Tetrahydrocannabinal (A ShTHCP)     0.014     0.043     ND     ND     ND       Ab-Tetrahydrocannabinal (A ShTHCP)     0.014     0.041     0.16     ND     ND       Ab-Tetrahydrocannabinal (A ShTHCP)     0.014     0.016     ND     ND     ND       Ab-Tetrahydrocannabinal (A ShTHCP)     0.015     0.016     ND     ND     ND       Ab-Tetrahydrocannabinal (A ShTHCP)     0.005     0.16     ND     ND     ND       Ab-TEC-O-acetate (Ab-THCO)     0.005     0.016	Δ8-tetrahydrocannabinol (Δ8-THC)	0.004	0.16	1.30	13.00
(64R,9R)-A10-Tetrahydrocannabinol ((66R,9R)-A10)     0.007     0.16     ND     ND       Hexndydrocannabinol (R Isomer) (%-HHC)     0.016     0.16     ND     ND       Detrahydrocannabinol (Acid (THCA)     0.001     0.16     14.52     145.10       DA-Tetrahydrocannabinol Acid (THCA)     0.024     0.071     ND     ND       DA-Tetrahydrocannabinol (Acid (THCA)     0.024     0.071     ND     ND       Cannabinol Acetter (CBNO)     0.017     0.16     ND     ND       A9-Tetrahydrocannabiphorol (A9-THCP)     0.017     0.16     ND     ND       A9-Tetrahydrocannabiphorol (A9-THCP)     0.005     0.16     ND     ND       A9-TEC-Oacetate (A9-THCO)     0.006     0.16     ND     ND       A9-THC-O-acetate (A9-THCO)     0.026     0.079     ND     ND	(6aR,9S)-Δ10-Tetrahydrocannabinol ((6aR,9S)-Δ10)	0.015	0.16	ND	ND
Headquidrocannabinol (R Isomer) (9r-HHC)     0.016     0.16     ND     ND       Tetrahydrocannabinol (A ITHCA)     0.001     0.16     14.52     145.19       Δ9-Tetrahydrocannabinexol (Δ9-THCH)     0.024     0.071     ND     ND       Connabinol Acette (CBNO)     0.014     0.045     ND     ND       Δ9-Tetrahydrocannabiphorol (Δ9-THCP)     0.017     0.16     ND     ND       Δ9-Tetrahydrocannabiphorol (Δ9-THCP)     0.017     0.16     ND     ND       Δ9-Tetrahydrocannabiphorol (Δ9-THCP)     0.016     ND     ND     ND       Δ9-Tetrahydrocannabiphorol (Δ9-THCP)     0.031     0.094     ND     ND       Δ9-THCP-O-acetate (Δ9-THCO)     0.005     0.16     ND     ND       Δ9-THCP-O-acetate (Δ9-THCO)     0.005     0.16     ND     ND	Hexahydrocannabinol (S Isomer) (9s-HHC)	0.017	0.16	ND	ND
Tetrahydrocannabinliol Acid (THCA)   0.001   0.16   14.52   14519     Δ9-Tetrahydrocannabinlexol (Δ9-THCH)   0.024   0.071   ND   ND     Cannabinol Acetate (CBNO)   0.014   0.043   ND   ND     Δ9-Tetrahydrocannabinhorol (Δ9-THCP)   0.011   0.16   ND   ND     Δ9-Tetrahydrocannabinhorol (Δ8-THCP)   0.014   0.16   ND   ND     Δ9-Tetrahydrocannabinhorol (Δ8-THCP)   0.016   ND   ND   ND     Δ9-Tetrahydrocannabinhorol (Δ8-THCP)   0.005   0.16   ND   ND     Cannabiditran (CBT)   0.005   0.16   ND   ND     Δ9-THC-O-acetate (Δ8-THCO)   0.031   0.094   ND   ND     9(S)-HHCP (s-HHCP)   0.026   0.079   ND   ND     9(R)-HHCP (s-HHCP)   0.026   0.079   ND   ND     9(S)-HHCP (s-HHCP)   0.026   0.079   ND   ND     9(R)-HHCP (s-HHCP)   0.026   0.079   ND   ND     9(S)-HHCP (s-HHCP)   0.026   0.079   ND   ND     9(S)-HHCP (s-HHCP)   0.026   0.079	(6aR,9R)-Δ10-Tetrahydrocannabinol ((6aR,9R)-Δ10)	0.007	0.16	ND	ND
ΔP Terdhydrocannabihexol (Δ9-THCH)     0.024     0.071     ND     ND       Cannabinol Acetate (CBNO)     0.014     0.043     ND     ND       Δ9-Terdhydrocannabiphorol (Δ9-THCP)     0.017     0.16     ND     ND       Δ8-Terdhydrocannabiphorol (Δ8-THCP)     0.005     0.16     ND     ND       Cannabicitran (CBT)     0.005     0.16     ND     ND       Δ8-Terd-o-acetate (Δ8-THCO)     0.056     0.16     ND     ND       9(5)-HHCP (S-HHCP)     0.031     0.094     ND     ND       9(5)-HHCP (S-HHCP)     0.031     0.094     ND     ND       9(5)-HHCP (S-HHCP)     0.026     0.076     ND     ND       9(5)-HHCP (S-HHCP)     0.026     0.079     ND     ND       9(5)-HHCP (S-HHCP)     0.026     0.079     ND     ND       9(5)-HHCP (S-HHCP)     0.026     0.076     ND     ND       9(5)-HHCP (S-HHCP)     0.057     0.067     ND     ND       9(5)-HHCP (S-HHCP)     0.057     0.067     ND     ND <t< td=""><td>Hexahydrocannabinol (R Isomer) (9r-HHC)</td><td>0.016</td><td>0.16</td><td>ND</td><td>ND</td></t<>	Hexahydrocannabinol (R Isomer) (9r-HHC)	0.016	0.16	ND	ND
Cannabian Acetate (CBNO)   0.014   0.043   ND   ND     Δ9-Tetrahydrocannabiphorol (Δ9-THCP)   0.017   0.16   ND   ND     Δ8-Tetrahydrocannabiphorol (Δ8-THCP)   0.041   0.16   ND   ND     Δ8-Tetrahydrocannabiphorol (Δ8-THCP)   0.016   ND   ND     Cannabicitran (CBT)   0.005   0.066   ND   ND     A9-THC-O-acetate (Δ8-THCO)   0.031   0.094   ND   ND     9(S)-HHCP (S-HHCP)   0.035   0.094   ND   ND     9(S)-HHCP (S-HHCP)   0.031   0.094   ND   ND     9(S)-HHCP (S-HHCP)   0.035   0.094   ND   ND     9(S)-HHCP (S-HHCP)   0.066   0.16   ND   ND     9(S)-HHCP (S-HHCP)   0.067   0.204   ND   ND     9(S)-HHCP (S-HHCP)   0.005   0.067   0.204   ND   ND     9(S)-HHCP (S-HHCP)   ND   ND   ND   ND   ND     9(S)-HHCP (S-HHCP)   ND   ND   ND   ND   ND     9(S)-HHCP (S-HHCP)   ND   ND   ND   ND<	Tetrahydrocannabinolic Acid (THCA)	0.001	0.16	14.52	145.19
A9-Tetrahydrocannabiphorol (A9-THCP)   0.017   0.16   ND   ND     A8-Tetrahydrocannabiphorol (A8-THCP)   0.041   0.16   ND   ND     Cannabichtran (CBT)   0.005   0.16   ND   ND     A8-THC-O-acetate (A8-THCQ)   0.006   0.16   ND   ND     Q9S,-HHCP (s-HHCP)   0.031   0.094   ND   ND     Q9S,-HHCP (s-HHCP)   0.066   0.16   ND   ND     Q9S,-HHCP (s-HHCP)   0.066   0.16   ND   ND     Q9S,-HHCP (s-HHCP)   0.026   0.079   ND   ND     9(S)-HHCP (s-HHCP)   0.026   0.079   ND   ND     9(S)-HLCP-cacetate (A9-THCO)   0.05   0.16   ND   ND     9(S)-HLCP-cacetate (A9-THCO)   0.05   0.16   ND   ND     9(S)-HLCP-cacetate (A9-THCO)   0.05   0.16   ND   ND     9(S)-HLCP-cacetate (A9-THC-A8THC+A8THC	Δ9-Tetrahydrocannabihexol (Δ9-THCH)	0.024	0.071	ND	ND
AB-Tetrohydrocannabiphorol (AB-THCP)     0.041     0.16     ND     ND       Cannabicitran (CBT)     0.005     0.16     ND     ND       AB-Tetrohydrocannabiphorol (AB-THCO)     0.076     0.16     ND     ND       QS)-HHCP (se-HHCP)     0.031     0.094     ND     ND       QS)-HHCP (se-HHCP)     0.036     0.16     ND     ND       QSP-HE-O-acette (AB-THCO)     0.026     0.079     ND     ND       QSP-HHCP (se-HHCP)     0.026     0.079     ND     ND       YSP-HE-O-acette (AB-THCO)     0.026     0.079     ND     ND       Soctul-LBA-Tetrahydrocannabinol (AB-THC-CB)     0.026     0.079     ND     ND       YSP-HE-O-acette (AB-THCO)     0.026     0.079     ND     ND     ND       YSP-HE-O-acette (AB-THCO)     0.026     0.079     ND     ND     ND       YSP-HE-O-acette (AB-THCO)     0.026     0.057     ND     ND     ND       YSP-THC-THCA-SONTACB-ABTHC-ACONTACONTACONTACONTACONTACONTACONTACONT	Cannabinol Acetate (CBNO)	0.014	0.043	ND	ND
Canabiditan (CBT)     0.005     0.16     ND     ND       Δ8-ThC-O-acetate (Δ8-THCO)     0.076     0.16     ND     ND       9(5)-HHCP (S-HHCP)     0.031     0.06     0.16     ND     ND       9(5)-HHCP (S-HHCP)     0.036     0.16     ND     ND       9(5)-HHCP (S-HHCP)     0.066     0.16     ND     ND       9(7)-HHCP (S-HHCP)     0.026     0.079     ND     ND       9(5)-HHCP - Cectate (AS-THCO)     0.026     0.079     ND     ND       9(5)-HHCP - Cectate (AS-THCO)     0.026     0.079     ND     ND       9(5)-HHCP - Cectate (AS-THCO)     0.05     0.16     ND     ND       9(5)-HHCP - Cectate (AS-THCO)     0.067     0.20     ND     ND       9(5)-HEC - Cectate (AS-THCO)     ND     ND     ND     ND       9(5)-HEC - Cectate (AS-THCO)     ND     ND     ND     ND       9(2)-HEC - CECTATE (ASTHC + ASTHC	Δ9-Tetrahydrocannabiphorol (Δ9-THCP)	0.017	0.16	ND	ND
AB-THC-O-occtute (AB-THCO)     0.076     0.16     ND     ND       9(S)-HHCP (s-HHCP)     0.031     0.094     ND     ND       Δ9-THC-O-occtute (AD-THCO)     0.066     0.16     ND     ND       9(R)-HHCP (r-HHCP)     0.026     0.076     ND     ND       9(R)-HHCP (r-HHCP)     0.026     0.076     ND     ND       9(R)-HHCP (r-HHCP)     0.026     0.076     ND     ND       9(S)-HHC-O-occtute (s-HHCO)     0.067     0.204     ND     ND       5-ctly-IAB-Tetrahydroconnabinol (AB-THC-C8)     0.067     0.204     ND     ND       5-ctly-IAB-TEtrahydroconnabinol (AB-THC-C8)     ND     ND     ND     ND       5-ctly-IAB-TEtrahydroconnabinol (AB-THC-C8)     ND     ND     ND     ND       5-ctly-IAB-TETCH     ND     ND     ND     ND     ND       5-ctly-IAB-THC+ ABTHC + ABTHC	Δ8-Tetrahydrocannabiphorol (Δ8-THCP)	0.041	0.16	ND	ND
9(5)-HHCP (s-HHCP) 0.031 0.094 ND ND   Δ9-THC-O-ocetate (Δ9-THCO) 0.066 0.16 ND ND   9(7)-HHCP (r-HHCP) 0.026 0.079 ND ND   9(5)-HHC-O-acetate (s-HHCO) 0.005 0.16 ND ND   9(5)-HHC-O-acetate (s-HHCO) 0.0067 0.204 ND ND   5-ctly-L8-Tetrahydroconnobinol (A8-THC-C8) 0.0067 0.204 ND ND   20-THC methyl ether (Δ9-MEO-THC) ND ND ND ND   7 total THC + Δ87TH - Δ97TH - Δ87TH - Δ87TH - Δ87TH - Δ97TH - Δ87TH - Δ97TH - Δ9	Cannabicitran (CBT)	0.005	0.16	ND	ND
9(5)-HHCP (s-HHCP)   0.031   0.094   ND   ND     A9-THC-O-acetate (Δ9-THCO)   0.066   0.16   ND   ND     9(7)-HHCP (r-HHCP)   0.026   0.079   ND   ND     9(5)-HHC (r-HHCP)   0.006   0.067   0.007   ND     9(5)-HHCP (r-HHCP)   0.0067   0.204   ND   ND     9(5)-HHCP (r-HHCP)   0.067   0.204   ND   ND     5-ctyl-J6-Tetrahydrocannabinol (J8-THC-C8)   0.067   0.204   ND   ND     5-ctyl-J6-Tetrahydrocannabinol (J8-THC-C8)   ND   ND   ND   ND     Chot THC + ABTHC + ADTHC (THCa * 0.877 + ABTHC + ABTHC + ADTHCHC)   ND   ND   ND     Total CBC (CBG-* 0.877 + CBG)	Δ8-THC-O-acetate (Δ8-THCO)	0.076	0.16	ND	ND
Δ9-THC-O-acetate (Δ9-THCO)   0.066   0.16   ND   ND     9(R)-HHC (P-HHCP)   0.026   0.079   ND   ND     9(S)-HHC-O-acetate (s-HHCO)   0.005   0.16   ND   ND     9(S)-HHC-O-acetate (s-HHCO)   0.005   0.026   ND   ND     3o-ctul-J&B-Tetrahydroconabiol (Δ8-THC-C8)   0.005   0.026   ND   ND     3o-thL 0-AstHC + MOTHC (THCa * 0.877 + Δ9THC + Δ8THC + Δ8THC + Δ10THC)   ND   ND   ND     Total THC + Δ8THC + Δ10THC (THCa * 0.877 + Δ9THC + Δ8THC + Δ10THC)   14.033   140.335   140.356     Total CBC (CBGa * 0.877 + CBG)   50.42   4.232   70.423   70.423     Total HHC (9r-HHC + 9s-HHC)   0.42   0.423   70.423		0.031	0.094	ND	ND
NO.5     0.005     0.16     ND     ND       3-octyl-A8-Tetrahydrocannabinol (A8-THC-C8)     0.067     0.204     ND     ND       A9-THC methyl ether (A9-MeO-THC)     ND     ND     ND     ND       Total THC (THCa*0.877 + A9THC)     12.73     127.33     140.33     140.33       Total THC + A8THC + A10THC (THCa*0.877 + A9THC + A8THC + A10THC)     14.03     140.33     140.33       Total CBD (C8Ba*0.877 + C8B)     0.42     4.23     136.35       Total CHC (SGBa*0.877 + C8G)     0.42     4.23     163.55       Total HHC (9r-HHC + 9s-HHC)     ND     ND     ND		0.066	0.16	ND	ND
9(5)-HHC-0-acetate (s-HHCO)   0.005   0.16   ND   ND     3-octyl-Δ8-Tetrahydrocannabinol (Δ8-THC-C8)   0.067   0.024   ND   ND     Δ9-THC methyl ether (Δ9-MeO-THC)   ND   ND   ND     Total THC (THCa °.0.877 + Δ9THC )   12.73   127.33     Total THC + Δ8THC + Δ10THC (THCa °.0.877 + Δ9THC + Δ8THC + Δ10THC )   13.63   136.33     Total CBC (CBGa °.0.877 + CBG )   0.42   4.23     Total CHC (GGa °.0.877 + CBG )   0.42   4.23     Total HHC (9r-HHC + 9s-HHC)   ND   ND	9(R)-HHCP (r-HHCP)	0.026	0.079	ND	ND
3-octyl-A&-Tetrahydrocannabinol (A&-THC-C8)     0.067     0.204     ND     ND       Δ9-THC methyl ether (Δ9-MeO-THC)     ND		0.005	0.16	ND	ND
Total THC ( THCa * 0.877 + Δ9THC )     12.73     12733       Total THC + Δ8THC + Δ10THC ( THCa * 0.877 + Δ9THC + Δ8THC + Δ10THC )     14.03     140.33       Total CBC ( CBDa * 0.877 + CBD )     13.64     136.35       Total CBC ( CBDa * 0.877 + CBC )     0.42     4.23       Total CBC ( CBDa * 0.877 + CBG )     0.42     4.23       Total CBC ( CBD * 0.877 + CBG )     ND     ND		0.067	0.204	ND	ND
Total THC ( THCa * 0.877 + Δ9THC ; )     12.73     12.73       Total THC + Δ8THC + Δ10THC ( THCa * 0.877 + Δ9THC + Δ8THC + Δ10THC ; )     14.03     140.33       Total CBC ( CBD a* 0.877 + CBD )     13.64     156.35       Total CBC ( CBD a* 0.877 + CBC )     0.42     4.23       Total CBC ( CBG a* 0.877 + CBC )     0.42     9.42       Total CBC ( CBG a* 0.877 + CBC )     ND     ND	A9-THC methul ether (A9-MeO-THC)			ND	ND
Total THC + A&THC + A10THC (THCa • 0.877 + A9THC + A&THC + A10THC) 14.03 140.33   Total CBD (CBDa • 0.877 + CBD) 13.64 136.35   Total CBG (CBGa • 0.877 + CBG) 0.42 4.23   Total CBG (CBGa • 0.877 + CBG) ND ND					
Total CBD (CBDa * 0.877 + CBD )     13.64     136.35       Total CBG (CBGa * 0.877 + CBG )     0.42     4.23       Total HHC (9r-HHC + 9s-HHC )     ND     ND					
Total CBG ( CBGa * 0.877 + CBg )     0.42     4.23       Total HHC ( 9r-HHC + 9s-HHC )     ND     ND					
Total HHC (%-HHC + %-HHC) ND ND					

MWA - Moisture Content & Water Activity Analysis

#### Analyzed Apr 13, 2023 | Instrument Chilled-mirror Dewpoint and Capacitance | Method SOP-008

Analyte	Result	Limit	Analyte	Result	Limit
Moisture (Moi)	5.8 % Mw	13 % Mw	Water Activity (WA)	0.42 a <sub>w</sub>	0.85 a <sub>w</sub>

UI Not Identified ND Not Detected N/A Not Applicable NT Not Reported LOD Limit of Detection LOQ Limit of Quantification <LOQ Detected >ULQL Above upper limit of linearity <UQD Above upper limit of linearity CFU/Q colong Forming Units per 1 gram TNTC Too Numerous to Count







Brandon Starr

Brandon Starr, Lab Manager Thu, 13 Apr 2023 17:08:31 -0700



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## SD230412-060 page 1 of 1

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### Sample Ocho Sour Tangie Bombers (S)

**QA** Testing



#### Sample ID SD230412-060 (72086) Matrix Flower (Inhalable Cannabis Good) Tested for Top Shelf Hemp Co Sampled -Received Apr 12, 2023 Reported Apr 14, 2023 Analyses executed CANX, MWA

Laboratory note: The estimated concentration of the unknown peak in the sample is 0.31% | 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 canobinoid and, therefore, these two compounds may have different efficacies. Using the most advanced instruments and techniques available in sestimated to be 1:59%. BG concentration is estimated to be 1:59%.

### CANX - Cannabinoids Analysis

Analyzed Apr 14, 2023 | Instrument HPLC-VWD | Method The expanded Uncertainty of the Cannabinoid analysis is approximately **£.81%** at the 95% Confidence Level

Analyte	LOD mg/g	LOQ mg/g	Result %	Result mg/g
11-Hydroxy-Δ8-Tetrahydrocannabivarin (11-Hyd-Δ8-THCV)	0.013	0.041	ND	ND
Cannabidiorcin (CBDO)	0.002	0.007	ND	ND
Abnormal Cannabidiorcin (a-CBDO)	0.01	0.031	ND	ND
(+/-)-9B-hydroxy-Hexahydrocannibinol (9b-HHC)	0.012	0.036	ND	ND
11-Hydroxy-Δ8-Tetrahydrocannabinol (11-Hyd-Δ8-THC)	0.007	0.021	ND	ND
Cannabidiolic Acid (CBDA)	0.001	0.16	13.89	138.92
Cannabigerol Acid (CBGA)	0.001	0.16	0.40	4.00
Cannabigerol (CBG)	0.001	0.16	0.03	0.32
Cannabidiol (CBD)	0.001	0.16	0.96	9.61
1(S)-THD (s-THD)	0.013	0.041	ND	ND
1(R)-THD (r-THD)	0.025	0.075	ND	ND
Tetrahydrocannabivarin (THCV)	0.001	0.16	ND	ND
Δ8-tetrahydrocannabivarin (Δ8-THCV)	0.021	0.064	ND	ND
Cannabidihexol (CBDH)	0.005	0.16	ND	ND
Tetrahydrocannabutol (Δ9-THCB)	0.013	0.038	ND	ND
Cannabinol (CBN)	0.001	0.16	ND	ND
Cannabidiphorol (CBDP)	0.015	0.047	ND	ND
exo-THC (exo-THC)	0.005	0.16	ND	ND
Tetrahydrocannabinol (Δ9-THC)	0.003	0.16	UI	UI
Δ8-tetrahydrocannabinol (Δ8-THC)	0.004	0.16	1.99	19.90
(6aR,95)-Δ10-Tetrahydrocannabinol ((6aR,95)-Δ10)	0.015	0.16	ND	ND
Hexahydrocannabinol (S Isomer) (9s-HHC)	0.017	0.16	ND	ND
(6aR,9R)-∆10-Tetrahydrocannabinol ((6aR,9R)-∆10)	0.007	0.16	ND	ND
Hexahydrocannabinol (R Isomer) (9r-HHC)	0.016	0.16	ND	ND
Tetrahydrocannabinolic Acid (THCA)	0.001	0.16	17.91	179.06
Δ9-Tetrahydrocannabihexol (Δ9-THCH)	0.024	0.071	ND	ND
Cannabinol Acetate (CBNO)	0.014	0.043	ND	ND
Δ9-Tetrahydrocannabiphorol (Δ9-THCP)	0.017	0.16	ND	ND
Δ8-Tetrahydrocannabiphorol (Δ8-THCP)	0.041	0.16	ND	ND
Cannabicitran (CBT)	0.005	0.16	ND	ND
Δ8-THC-O-acetate (Δ8-THCO)	0.076	0.16	ND	ND
9(S)-HHCP (s-HHCP)	0.031	0.094	ND	ND
Δ9-THC-O-acetate (Δ9-THCO)	0.066	0.16	ND	ND
9(R)-HHCP (r-HHCP)	0.026	0.079	ND	ND
9(S)-HHC-O-acetate (s-HHCO)	0.005	0.16	ND	ND
3-octyl-Δ8-Tetrahydrocannabinol (Δ8-THC-C8)	0.067	0.204	ND	ND
Δ9-THC methyl ether (Δ9-MeO-THC)			ND	ND
Total THC ( THCa * 0.877 + <b>Δ</b> 9THC )			15.70	157.04
Total THC + Δ8THC + Δ10THC ( THCa * 0.877 + Δ9THC + Δ8THC + Δ10THC )			17.69	176.94
Total CBD ( CBDa * 0.877 + CBD )			13.14	131.45
Total CBG ( CBGa * 0.877 + CBG )			0.38	3.82
Total HHC (9r-HHC + 9s-HHC)			ND	ND

MWA - Moisture Content & Water Activity Analysis

#### Analyzed Apr 13, 2023 | Instrument Chilled-mirror Dewpoint and Capacitance | Method SOP-008

Analyte	Result	Limit	Analyte	Result	Limit
Moisture (Moi)	5.7 % Mw	13 % Mw	Water Activity (WA)	0.41 a <sub>w</sub>	0.85 a <sub>w</sub>

UI Not Identified ND Not Detected N/A Not Applicable NT Not Reported LOD Limit of Detection LOQ Limit of Quantification <LOQ Detected >ULQL Above upper limit of linearity <UQD Above upper limit of linearity CFU/Q colong Forming Units per 1 gram TNTC Too Numerous to Count







Authorized Signature

Brandon Starr

Brandon Starr, Lab Manager Fri, 14 Apr 2023 14:50:32 -0700



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#### PharmLabs San Diego Certificate of Analysis

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#### sample Ocho Grape Runtz Bombers (I)

QA Testing SDPharmLabs

# Matrix Flower (Inhalable Cannabis Good)

Sample ID SD230412-059 (72085)		Matrix Flower (Inhalable Cannabis Good)	
Tested for Top Shelf Hemp Co			
Sampled -	Received Apr 12, 2023	Reported Apr 14, 2023	
Analyses executed CANX, MWA			
-			

Laboratory note: The estimated concentration of the unknown peak in the sample is 0.29% | 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 o different compound from the main (-)d8-THC cannobinoid 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 Concentration is estimated to be 1.53%

#### CANX - Cannabinoids Analysis

Analyzed Apr 14, 2023 | Instrument HPLC-VWD | Method The expanded Uncertainty of the Cannabinoid analysis is approximately **3**.81% at the 95% Confidence Level

Analyte	LOD mg/g	LOQ mg/g	Result %	Result mg/g
11-Hydroxy-Δ8-Tetrahydrocannabivarin (11-Hyd-Δ8-THCV)	0.013	0.041	ND	ND
Cannabidiorcin (CBDO)	0.002	0.007	ND	ND
Abnormal Cannabidiorcin (a-CBDO)	0.01	0.031	ND	ND
(+/-)-9B-hydroxy-Hexahydrocannibinol (9b-HHC)	0.012	0.036	ND	ND
11-Hydroxy-A8-Tetrahydrocannabinol (11-Hyd-A8-THC)	0.007	0.021	ND	ND
Cannabidiolic Acid (CBDA)	0.001	0.16	14.48	144.81
Cannabigerol Acid (CBGA)	0.001	0.16	0.46	4.64
Cannabigerol (CBG)	0.001	0.16	0.03	0.30
Cannabidiol (CBD)	0.001	0.16	0.95	9.47
1(S)-THD (s-THD)	0.013	0.041	ND	ND
1(R)-THD (r-THD)	0.025	0.075	ND	ND
Tetrahydrocannabivarin (THCV)	0.001	0.16	ND	ND
Δ8-tetrahydrocannabivarin (Δ8-THCV)	0.021	0.064	ND	ND
Cannabidihexol (CBDH)	0.005	0.16	ND	ND
Tetrahydrocannabutol (Δ9-THCB)	0.013	0.038	ND	ND
Cannabinol (CBN)	0.001	0.16	ND	ND
Cannabidiphorol (CBDP)	0.015	0.047	ND	ND
exo-THC (exo-THC)	0.005	0.16	ND	ND
Tetrahydrocannabinol (Δ9-THC)	0.003	0.16	UI	UI
A8-tetrahydrocannabinol (A8-THC)	0.004	0.16	1.53	15.30
(6aR,9S)-Δ10-Tetrahydrocannabinol ((6aR,9S)-Δ10)	0.015	0.16	ND	ND
Hexahydrocannabinol (S Isomer) (9s-HHC)	0.017	0.16	ND	ND
(6aR,9R)-Δ10-Tetrahydrocannabinol ((6aR,9R)-Δ10)	0.007	0.16	ND	ND
Hexahydrocannabinol (R Isomer) (9r-HHC)	0.016	0.16	ND	ND
Tetrahydrocannabinolic Acid (THCA)	0.001	0.16	14.24	142.43
Δ9-Tetrahydrocannabihexol (Δ9-THCH)	0.024	0.071	ND	ND
Cannabinol Acetate (CBNO)	0.014	0.043	ND	ND
Δ9-Tetrahydrocannabiphorol (Δ9-THCP)	0.017	0.16	ND	ND
Δ8-Tetrahydrocannabiphorol (Δ8-THCP)	0.041	0.16	ND	ND
Cannabicitran (CBT)	0.005	0.16	ND	ND
Δ8-THC-O-acctate (Δ8-THCO)	0.076	0.16	ND	ND
9(S)-HHCP (s-HHCP)	0.031	0.094	ND	ND
Δ9-THC-O-acetate (Δ9-THCO)	0.066	0.16	ND	ND
9(R)-HHCP (r-HHCP)	0.026	0.079	ND	ND
9(S)-HHC-O-acetate (s-HHCO)	0.005	0.16	ND	ND
3-octyl-Δ8-Tetrahydrocannabinol (Δ8-THC-C8)	0.067	0.204	ND	ND
Δ9-THC methyl ether (Δ9-MeO-THC)			ND	ND
Total THC ( THCa * 0.877 + Δ9THC )			12.49	124.91
Total THC + $\Delta$ 8THC + $\Delta$ 10THC (THCa * 0.877 + $\Delta$ 9THC + $\Delta$ 8THC + $\Delta$ 10THC )			14.02	140.21
Total CBD ( CBDa * 0.877 + CBD )			13.65	136.47
Total CBG ( CBGa * 0.877 + CBG )			0.44	4.37
Total HHC ( 9r-HHC + 9s-HHC )			ND	ND
Total Cannabinoids			28.10	281.05
				*Dry Weight

MWA - Moisture Content & Water Activity Analysis

#### Analyzed Apr 13, 2023 | Instrument Chilled-mirror Dewpoint and Capacitance | Method SOP-008

Analyte	Result	Limit	Analyte	Result	Limit
Moisture (Moi)	5.8 % Mw	13 % Mw	Water Activity (WA)	0.42 a <sub>w</sub>	0.85 a <sub>w</sub>

UI Not Identified ND Not Detected N/A Not Applicable NT Not Reported LOD Limit of Detection LOQ Limit of Quantification <LOQ Detected >ULQL Above upper limit of linearity <UQD Above upper limit of linearity CFU/Q colong Forming Units per 1 gram TNTC Too Numerous to Count







Authorized Signature

Brandon Starr

Brandon Starr, Lab Manager Fri, 14 Apr 2023 14:50:31 -0700



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## SD230412-058 page 1 of 1

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#### sample Ocho Cereal Milk Bombers (H)

QA Testing

# 

Sample ID SD230412-058 (72084)		Matrix Flower (Inhalable Cannabis Good)
Tested for Top Shelf Hemp Co		
Sampled -	Received Apr 12, 2023	Reported Apr 14, 2023
Angluses executed CANX, MWA		

Laboratory note: The estimated concentration of the unknown peok in the sample is 0.30% [Currently PharmLabs laboratory can not confirm an unidentified peok 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 and d9-THC is problematic for the scientific community as a whole. PharmLabs believes the unidentified peak to be a combination of (+)d8-THC with the majority, if not all, of the concentration being (+)d8-THC. Total (+/-) D8 Concentration is estimated to be 16.3%

#### CANX - Cannabinoids Analysis

Analyzed Apr 14, 2023 | Instrument HPLC-VWD | Method The expanded Uncertainty of the Cannabinoid analysis is approximately **3**.81% at the 95% Confidence Level

Analyte	LOD mg/g	LOQ mg/g	Result %	Result mg/g
11-Hydroxy-Δ8-Tetrahydrocannabivarin (11-Hyd-Δ8-THCV)	0.013	0.041	ND	ND
Cannabidiorcin (CBDO)	0.002	0.007	ND	ND
Abnormal Cannabidiorcin (a-CBDO)	0.01	0.031	ND	ND
(+/-)-9B-hydroxy-Hexahydrocannibinol (9b-HHC)	0.012	0.036	ND	ND
11-Hydroxy-Δ8-Tetrahydrocannabinol (11-Hyd-Δ8-THC)	0.007	0.021	ND	ND
Cannabidiolic Acid (CBDA)	0.001	0.16	13.80	137.96
Cannabigerol Acid (CBGA)	0.001	0.16	0.41	4.07
Cannabigerol (CBG)	0.001	0.16	0.03	0.30
Cannabidiol (CBD)	0.001	0.16	1.00	10.01
1(S)-THD (s-THD)	0.013	0.041	ND	ND
1(R)-THD (r-THD)	0.025	0.075	ND	ND
Tetrahydrocannabivarin (THCV)	0.001	0.16	ND	ND
Δ8-tetrahydrocannabivarin (Δ8-THCV)	0.021	0.064	ND	ND
Cannabidihexol (CBDH)	0.005	0.16	ND	ND
Tetrahydrocannabutol (Δ9-THCB)	0.013	0.038	ND	ND
Cannabinol (CBN)	0.001	0.16	ND	ND
Cannabidiphorol (CBDP)	0.015	0.047	ND	ND
exo-THC (exo-THC)	0.005	0.16	ND	ND
Tetrahydrocannabinol (Δ9-THC)	0.003	0.16	UI	UI
Δ8-tetrahydrocannabinol (Δ8-THC)	0.004	0.16	1.63	16.30
(6aR,9S)-Δ10-Tetrahydrocannabinol ((6aR,9S)-Δ10)	0.015	0.16	ND	ND
Hexahydrocannabinol (S Isomer) (9s-HHC)	0.017	0.16	ND	ND
(6aR,9R)-Δ10-Tetrahydrocannabinol ((6aR,9R)-Δ10)	0.007	0.16	ND	ND
Hexahydrocannabinol (R Isomer) (9r-HHC)	0.016	0.16	ND	ND
Tetrahydrocannabinolic Acid (THCA)	0.001	0.16	14.12	141.17
Δ9-Tetrahydrocannabihexol (Δ9-THCH)	0.024	0.071	ND	ND
Cannabinol Acetate (CBNO)	0.014	0.043	ND	ND
Δ9-Tetrahydrocannabiphorol (Δ9-THCP)	0.017	0.16	ND	ND
	0.041	0.16	ND	ND
Cannabicitran (CBT)	0.005	0.16	ND	ND
Δ8-THC-O-acetate (Δ8-THCO)	0.076	0.16	ND	ND
9(S)-HHCP (s-HHCP)	0.031	0.094	ND	ND
Δ9-THC-O-acetate (Δ9-THCO)	0.066	0.16	ND	ND
9(R)-HHCP (r-HHCP)	0.026	0.079	ND	ND
9(S)-HHC-O-acetate (s-HHCO)	0.005	0.16	ND	ND
3-octul-Δ8-Tetrahudrocannabinol (Δ8-THC-C8)	0.067	0.204	ND	ND
Δ9-THC methyl ether (Δ9-MeO-THC)			ND	ND
Total THC ( THCa * 0.877 + Δ9THC )			12.38	123.81
Total THC + Δ8THC + Δ10THC (THCa * 0.877 + Δ9THC + Δ8THC + Δ10THC)			14.01	140.11
Total CBD (CBDa * 0.877 + CBD)			13.10	131.00
Total CBG ( CBGa * 0.877 + CBG )			0.39	3.87
Total HHC ( 9r-HHC + 9s-HHC )			ND	ND
Total Cannabinoids			27.50	274.98
				*Dry Weight 9

MWA - Moisture Content & Water Activity Analysis

#### Analyzed Apr 13, 2023 | Instrument Chilled-mirror Dewpoint and Capacitance | Method SOP-008

Analyte	Result	Limit	Analyte	Result	Limit
Moisture (Moi)	5.7 % Mw	13 % Mw	Water Activity (WA)	0.41 a <sub>w</sub>	0.85 a <sub>w</sub>

UI Not Identified ND Not Detected N/A Not Applicable DI Dimit of Detection LOQ Limit of Quantification <LOQ Detected NUCL Above upper limit of linearity >ULCL Above upper limit of linearity CFU/Q Colong Forming Units per 1 gram TNTC Too Numerous to Count







Authorized Signature

Brandon Starr

Brandon Starr, Lab Manager Fri, 14 Apr 2023 14:50:30 -0700



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