kaycha LABS

673 N. Bardstown Rd
Mount Washington, KY, 40047, US

Kaycha Labs

BM IHP NM Jeff L. 101920

Certificate of Analysis

Oct 23, 2020 |

PASSED

PRODUCT IMAGE

SAFETY RESULTS

Pesticides	Heavy Metals	Microbials	Mycotoxins	Residuals Solvents	Filth	Water Activity
PASSED	PASSED	PASSED	PASSED	NOT TESTED	PASSED	NOT TESTED

MISC.

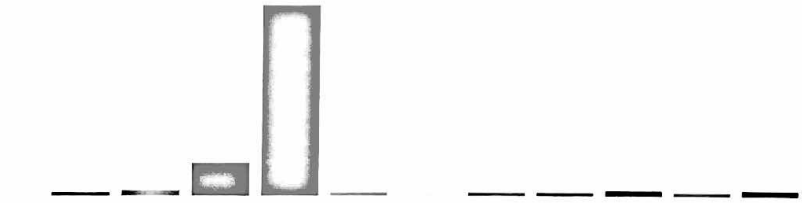
Moisture	Terpenes
NOT TESTED	NOT TESTED

CANNABINOID RESULTS

Total THC
0.285%

Total CBD
9.045%

Total Cannabinoids
10.878%



	D9-THC	THCA	CBD	CBDA	D8-THC	THCV	CBN	CBDV	CBC	CBG	CBGA
	0.121%	0.188%	1.459%	8.650%	ND	ND	ND	ND	0.232%	0.052%	0.176%
	1.210 mg/g	1.880 mg/g	14.590 mg/g	86.500 mg/g	ND	ND	ND	ND	2.320 mg/g	0.520 mg/g	1.760 mg/g
LOD	0.0001 %	0.001 %	0.0001 %	0.001 %	0.001 %	0.001 %	0.001 %	0.001 %	0.001 %	0.001 %	0.001 %

Cannabinoid Profile Test

Analyzed by 19 | **Weight** 0.2074g | **Extraction date :** NA | **Extracted By :** NA

Analysis Method -SOP.T.40.020, SOP.T.30.050 **Reviewed On -** 10/22/20 11:08:21 **Batch Date :** 10/21/20 16:08:54

Analytical Batch -MO001310POT **Instrument Used :** HPLC Potency Analyzer **Running On :**

Reagent	Dilution	Consums. ID
	40	

Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with UV detection (HPLC-UV). (Method: SOP.T.30.050 for sample prep and Shimadzu High Sensitivity Method SOP.T.40.020 for analysis. LOQ for all cannabinoids is 1 mg/L). Measurement of Uncertainty: 2.7%

Filth — PASSED

Analyzed By	Weight	Extraction date	LOD(ppm)	Extracted By
1	NA	NA		NA

Analysis Method -SOP.T.40.013 **Batch Date :**

Analytical Batch -NA **Reviewed On -** 10/23/20 10:09:50

Instrument Used :

Running On :

This includes but is not limited to hair, insects, feces, packaging contaminants, and manufacturing waste and by-products. An SH-2BT Stereo Microscope is use for inspection.

David Greene
Lab Director
State License # 19-05-02P
ISO Accreditation # 17025:2017 #97164

Signature

10/23/2020
Signed On

kaycha LABS
673 N. Bardstown Rd
Mount Washington, KY, 40047, US

Kaycha Labs
BM IHP NM Jeff L. 101920

Certificate of Analysis

PASSED

Pesticides

PASSED

Pesticides	LOD	Units	Action Level	Result
ABAMECTIN B1A	0.020	ppm	0.5	ND
ACEPHATE	0.010	ppm	0.5	ND
ACEQUINOCYL	0.02	ppm	2	ND
ACETAMIPRID	0.010	ppm	0.2	ND
ALDICARB	0.020	ppm	0.4	ND
AZOXYSTROBIN	0.010	ppm	0.2	ND
BIFENAZATE	0.010	ppm	0.2	ND
BIFENTHRIN	0.010	ppm	0.2	ND
BOSCALID	0.005	ppm	0.4	ND
CARBARYL	0.010	ppm	0.2	ND
CARBOFURAN	0.010	ppm	0.2	ND
CHLORANTRANILIPROLE	0.010	ppm	0.2	ND
CHLORPYRIFOS	0.010	ppm	0.2	ND
CLOFENTEZINE	0.010	ppm	0.2	ND
COUMAPHOS	0.005	ppm	0.2	ND
CYPERMETHRIN	0.010	ppm	1	ND
DAMINOZIDE	0.010	ppm	1	ND
DIAZANON	0.010	ppm	0.2	ND
DICHLORVOS	0.050	ppm	0.1	ND
DIMETHOATE	0.010	ppm	0.2	ND
DIMETHOMORPH	0.005	ppm	0.1	ND
ETHOPROPHOS	0.010	ppm	0.2	ND
ETOFENPROX	0.010	ppm	0.4	ND
ETOXAZOLE	0.010	ppm	0.2	ND
FENHEXAMID	0.005	ppm	0.1	ND
FENOXYCARB	0.010	ppm	0.2	ND
FENPYROXIMATE	0.010	ppm	0.4	ND
FIPRONIL	0.020	ppm	0.4	ND
FLONICAMID	0.010	ppm	1	ND
FLUDIOXONIL	0.010	ppm	0.4	ND
HEXYTHIAZOX	0.010	ppm	1	ND
IMAZALIL	0.010	ppm	0.2	ND
IMIDACLOPRID	0.010	ppm	0.4	ND
KRESOXIM-METHYL	0.010	ppm	0.4	ND
MALATHION	0.010	ppm	0.2	ND
METALAXYL	0.010	ppm	0.2	ND
METHIOCARB	0.010	ppm	0.2	ND
METHOMYL	0.010	ppm	0.6	ND
MEVINPHOS	0.010	ppm	0.1	ND
MYCLOBUTANIL	0.010	ppm	0.2	ND
NALED	0.010	ppm	0.5	ND
OXAMYL	0.010	ppm	1	ND
PACLOBUTRAZOL	0.010	ppm	0.4	ND
PERMETHRINS	0.050	ppm	1	ND
PHOSMET	0.010	ppm	0.2	ND
PIPERONYL BUTOXIDE	0.010	ppm	3	ND

Pesticides	LOD	Units	Action Level	Result
PRALLETHRIN	0.050	ppm	0.2	ND
PROPICONAZOLE	0.010	ppm	0.4	ND
PROPOXUR	0.010	ppm	0.2	ND
PYRETHRIN I	0.010	ppm	1	ND
PYRIDABEN	0.005	ppm	0.2	ND
SPINETORAM	0.005	ppm	0.5	ND
SPINOSAD (SPINOSYN A)	0.010	ppm	0.2	ND
SPINOSAD (SPINOSYN D)	0.010	ppm	0.2	ND
SPIROMESIFEN	0.010	ppm	0.2	ND
SPIROTETRAMAT	0.020	ppm	0.2	ND
SPIROXAMINE	0.010	ppm	0.4	ND
TEBUCONAZOLE	0.010	ppm	0.4	ND
THIACLOPRID	0.010	ppm	0.2	ND
THIAMETHOXAM	0.010	ppm	0.5	ND
TRIFLOXYSTROBIN	0.010	ppm	0.2	ND

Pesticides

PASSED

Analyzed by	Weight	Extraction date	Extracted By
1	1g	10/23/20 10:10:00	1

Analysis Method - SOP.T.30.060, SOP.T.40.060 ,
Analytical Batch - M0001318PES
Instrument Used : LCMSMS 8060 P
Running On :
Batch Date : 10/23/20 10:10:30

Reviewed On- 10/23/20 10:09:50

Reagent	Dilution	Consums. ID

Pesticide screen is performed using LC-MS which can screen down to below single digit ppb concentrations for regulated Pesticides. Currently we analyze for 57 Pesticides. (Method: SOP.T.30.060 Sample Preparation for Pesticides Analysis via LCMSMS and SOP.T40.060 Procedure for Pesticide Quantification Using LCMS). *

David Greene
Lab Director
State License # 19-05-02P
ISO Accreditation # 17025:2017 #97164

Signature

10/23/2020
Signed On

kaycha LABS
673 N. Bardstown Rd
Mount Washington, KY, 40047, US

Kaycha Labs
BM IHP NM Jeff L. 101920

Certificate of Analysis

PASSED

Microbials — PASSED

Analyte	LOD	Result
ASPERGILLUS_TERREUS_1J2		not present in 1 gram.
ASPERGILLUS_NIGER		not present in 1 gram.
ASPERGILLUS_FUMIGATUS		not present in 1 gram.
ASPERGILLUS_FLAVUS		not present in 1 gram.
SALMONELLA_SPECIFIC_GENE		not present in 1 gram.
ESCHERICHIA_COLI_SHIGELLA_SPP		not present in 1 gram.

Analysis Method -SOP.T.40.043
Analytical Batch -NA **Batch Date :**
Instrument Used :
Running On :

Analyzed by	Weight	Extraction date	Extracted By
NA	NA	NA	NA

Microbiological testing for Fungal and Bacterial Identification via Polymerase Chain Reaction (PCR) method consisting of sample DNA amplified via tandem Polymerase Chain Reaction (PCR) as a crude lysate which avoids purification. (Method SOP.T.40.043) If a pathogenic Escherichia Coli, Salmonella, Aspergillus fumigatus, Aspergillus flavus, Aspergillus niger, or Aspergillus terreus is detected in 1g of a sample, the sample fails the microbiological-impurity testing.

Mycotoxins — PASSED

Analyte	LOD	Units	Result	Action Level (PPM)
AFLATOXIN G2	0.001	ppm	ND	0.02
AFLATOXIN G1	0.001	ppm	ND	0.02
AFLATOXIN B2	0.001	ppm	ND	0.02
AFLATOXIN B1	0.001	ppm	ND	0.02
OCHRATOXIN A+	0.001	ppm	ND	0.02

Analysis Method -SOP.T.30.060, SOP.T.40.060
Analytical Batch - | Reviewed On - 10/23/20 10:26:18
Instrument Used :
Running On :
Batch Date :

Analyzed by	Weight	Extraction date	Extracted By
NA	NA	NA	NA

Aflatoxins B1, B2, G1, G2, and Ochratoxins A testing using LC-MS. (Method: SOP.T.30.060 for Sample Preparation and SOP.T40.060 Procedure for Mycotoxins Quantification Using LCMS. LOQ 1.0 ppb). Total Aflatoxins (Aflotoxin B1, B2, G1, G2) must be <20µg/Kg. Ochratoxins must be <20µg/Kg.

Heavy Metals — PASSED

Reagent

110119.52
110119.44
112519.01
110119.36

Metal	LOD	Unit	Result	Action Level (PPM)
ARSENIC	0.02	ppm	ND	10
CADMIUM	0.02	ppm	ND	4.1
LEAD	0.02	ppm	1.740	10
MERCURY	0.02	ppm	ND	2

Analyzed by	Weight	Extraction date	Extracted By
18	0.484g	10/23/20 08:10:02	18

Analysis Method -SOP.T.40.050, SOP.T.30.052
Analytical Batch -MO001317HEA | Reviewed On - 10/23/20 10:14:08
Instrument Used : ICP-MS 2030
Running On :
Batch Date : 10/23/20 08:52:00

Heavy Metals screening is performed using ICP-MS (Inductively Coupled Plasma - Mass Spectrometer) which can screen down to below single digit ppb concentrations for regulated heavy metals using Method SOP.T.30.052 Sample Preparation for Heavy Metals Analysis via ICP-MS and SOP.T.40.050 Heavy Metals Analysis via ICP-MS. *Action Limits based on Colorado Regulations.

David Greene
Lab Director
State License # 19-05-02P
ISO Accreditation # 17025:2017 #97164

Signature

10/23/2020
Signed On

CannaSafe - LA
7027 Hayvenhurst Ave.
Van Nuys, CA 91406

(818) 922-2416
https://www.csalabs.com
Lic# C8-0000040-LIC

R&D Testing

CBD Isolate

Sample ID: 2101CSALA4395.1186
Matrix: Other
Type: Other
Sample Size: 2 units
Batch Size:
Batch#: 0100010

Produced: 01/18/2021
Collected: 01/20/2021
Received: 01/20/2021
Completed: 01/21/2021

ND	>99.9%	>99.9%
Total THC	Total CBD	Total Cannabinoids

Cannabinoids

Pass

Testing method: HPLC-SOP 101

Analyte	LOD	LOQ	Results	Results
	mg/g	mg/g	%	mg/g
CBD	0.18797	1.92917	>99.9	>999
CBDV	0.38583	1.92917	0.2651	2.6514
CBC	0.05936	1.92917	ND	ND
CBDa	0.25722	1.92917	ND	ND
CBG	0.49466	1.92917	ND	ND
CBGa	0.23744	1.92917	ND	ND
CBN	0.11872	1.92917	ND	ND
THCa	0.10882	1.92917	ND	ND
THCV	0.37594	1.92917	ND	ND
Δ8-THC	0.17808	1.92917	ND	ND
Δ9-THC	0.1385	1.92917	ND	ND
Total			**>99.9**	**>999**

Date Tested: 01/21/2021

Total THC = THCa * 0.877 + d9-THC

Total CBD = CBDa * 0.877 + CBD

LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.

If the totals appear >99%, your analytical results show a combined total greater than 100%. Analytically, the results are valid based on compound purity and innate measurement uncertainties.

ISO / IEC 17025:2017 ACCREDITED LABORATORY
Accreditation No. 73653

Douglas Duncan
Lab Director
01/21/2021

Cecilia Melgar
COA Review
01/21/2021

CannaSafe - LA
7027 Hayvenhurst Ave.
Van Nuys, CA 91406

(818) 922-2416
https://www.csalabs.com
Lic# C8-0000040-LIC

R&D Testing

CBD Isolate

Sample ID: 2101CSALA4395.1186
Matrix: Other
Type: Other
Sample Size: 2 units
Batch Size:
Batch#: 0100010

Produced: 01/18/2021
Collected: 01/20/2021
Received: 01/20/2021
Completed: 01/21/2021

Residual Solvents

Pass

Testing method: HSGCMS-SOP 202

Analyte	LOD	LOQ	Limit	Results	Status
	µg/g	µg/g	µg/g	µg/g	
1,2-Dichloroethane	0.1524	0.4571	1	ND	Pass
Acetone	50.0	500.0	5000	ND	Pass
Acetonitrile	4.1	41.0	410	ND	Pass
Benzene	0.1905	0.6095	1	ND	Pass
Butane	50.0	500.0	5000	ND	Pass
Chloroform	0.3048	0.9905	1	ND	Pass
Ethanol	50.0	500.0	5000	ND	Pass
Ethyl acetate	50.0	500.0	5000	ND	Pass
Ethylene Oxide	0.1524	0.4952	1	ND	Pass
Ethyl ether	50.0	500.0	5000	ND	Pass
Heptane	50.0	500.0	5000	ND	Pass
Isopropyl alcohol	50.0	500.0	5000	ND	Pass
Methanol	30.0	300.0	3000	<LOQ	Pass
Methylene chloride	0.1143	0.381	1	ND	Pass
Hexane	2.9	29.0	290	ND	Pass
Pentane	50.0	500.0	5000	<LOQ	Pass
Propane	50.0	500.0	5000	ND	Pass
Toluene	8.9	89.0	890	ND	Pass
Trichloroethylene	0.1905	0.6476	1	ND	Pass
Total xylenes	21.7	217.0	2170	ND	Pass

Date Tested: 01/21/2021

LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.

ISO / IEC 17025:2017 ACCREDITED LABORATORY
Accreditation No. 73653

Douglas Duncan
Lab Director
01/21/2021

Cecilia Melgar
COA Review
01/21/2021

botanacor

CERTIFICATE OF ANALYSIS

CBD Isolate

Batch ID:	0100010	**Test ID:**	T000119537
Type:	Concentrate	**Submitted:**	01/19/2021 @ 08:35 AM
Test:	Pesticides	**Started:**	1/21/2021
Method:	TM17	**Reported:**	1/22/2021

PESTICIDE RESIDUE

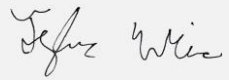
Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	34 - 2325	ND*
Acetamiprid	37 - 2325	ND*
Abamectin	>285	ND*
Azoxystrobin	41 - 2325	ND*
Bifenazate	38 - 2325	ND*
Boscalid	41 - 2325	ND*
Carbaryl	43 - 2325	ND*
Carbofuran	41 - 2325	ND*
Chlorantraniliprole	46 - 2325	ND*
Chlorpyrifos	51 - 2325	ND*
Clofentezine	278 - 2325	ND*
Diazinon	269 - 2325	ND*
Dichlorvos	>291	ND*
Dimethoate	36 - 2325	ND*
E-Fenpyroximate	295 - 2325	ND*
Etofenprox	42 - 2325	ND*
Etoxazole	291 - 2325	ND*
Fenoxycarb	>42	ND*
Fipronil	45 - 2325	ND*
Flonicamid	50 - 2325	ND*
Fludioxonil	>281	ND*
Hexythiazox	44 - 2325	ND*
Imazalil	262 - 2325	ND*
Imidacloprid	39 - 2325	ND*
Kresoxim-methyl	46 - 2325	ND*

Compound	Dynamic Range (ppb)	Result (ppb)
Malathion	270 - 2325	ND*
Metalaxyl	40 - 2325	ND*
Methiocarb	40 - 2325	ND*
Methomyl	42 - 2325	ND*
MGK 264 1	160 - 2325	ND*
MGK 264 2	118 - 2325	ND*
Myclobutanil	39 - 2325	ND*
Naled	47 - 2325	ND*
Oxamyl	38 - 2325	ND*
Paclobutrazol	42 - 2325	ND*
Permethrin	278 - 2325	ND*
Phosmet	42 - 2325	ND*
Prophos	279 - 2325	ND*
Propoxur	40 - 2325	ND*
Pyridaben	283 - 2325	ND*
Spinosad A	29 - 2325	ND*
Spinosad D	81 - 2325	ND*
Spiromesifen	>261	ND*
Spirotetramat	>260	ND*
Spiroxamine 1	19 - 2325	ND*
Spiroxamine 2	23 - 2325	ND*
Tebuconazole	279 - 2325	ND*
Thiacloprid	37 - 2325	ND*
Thiamethoxam	40 - 2325	ND*
Trifloxystrobin	41 - 2325	ND*

* ND = None Detected (Defined by Dynamic Range of the method)

N/A

FINAL APPROVAL



Tyler Wiese
22-Jan-2021
12:13 PM

PREPARED BY / DATE

Ben Minton
22-Jan-2021
7:58 PM

APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC.

 | 1301 S Jason St Unit K, Denver, CO 80223 | 888.800.8223 | www.botanacor.com

botanacor

CERTIFICATE OF ANALYSIS

CBD Isolate

Batch ID:	0100010	**Test ID:**	T000119538
Type:	Concentrate	**Submitted:**	01/19/2021 @ 08:35 AM
Test:	Metals	**Started:**	1/20/2021
Method:	TM19	**Reported:**	1/21/2021

HEAVY METALS

Analyte	Dynamic Range (ppm)	Result (ppm)
Arsenic	0.101 - 10.00	ND
Cadmium	0.097 - 9.69	ND
Mercury	0.097 - 9.70	ND
Lead	0.113 - 11.20	ND

* ND = None Detected (Defined by Dynamic Range of the method)

FINAL APPROVAL

Sam Smith
21-Jan-2021
12:20 PM

PREPARED BY / DATE

Ben Minton
21-Jan-2021
2:28 PM

APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC.

 | 1301 S Jason St Unit K, Denver, CO 80223 | 888.800.8223 | www.botanacor.com

Marin Analytics

Analysis Report

Sample 206-021021-003

Broad Spectrum Clear Delta 8

Batch/Lot # #00010

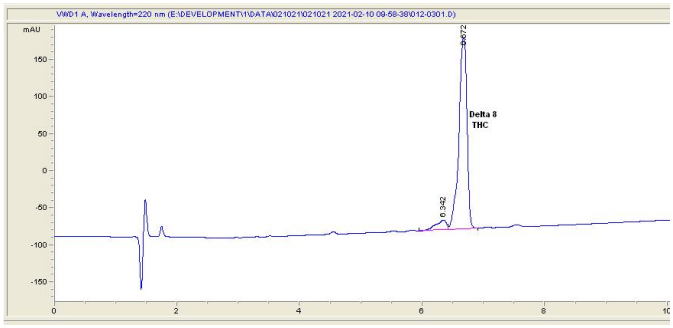
Sample Submitted: 02-10-2021; Report Date: 02-10-2021

Broad Spectrum Clear Delta 8

Batch/Lot # #00010

Distillate

Chromatogram



Cannabinoid Profile

Cannabinoid Profile by HPLC

0.00%
Calculated THC Yield

0.00%
Calculated CBD Yield

93.05%
Total Cannabinoids

Cannabinoid	% wt	mg/g
Delta-8-THC	93.05	930.5
THC	0.0	0.0
Total Cannabinoids	**93.05**	**930.5**
Calculated THC Yield	**0.00**	**0.00**
Calculated CBD Yield	**0.00**	**0.00**

Calculated Maximum THC Yield = THC + 0.877 * THCA

Calculated Maximum CBD Yield = CBD + 0.877 * CBDA

Marin Analytics, LLC
250 Bel Marin Keys Blvd, Suite D4
Novato, CA 94949
415-936-6477 / Support@MarinAnalytics.com

Sara Biancalana

Sara Biancalana
Chief Scientist