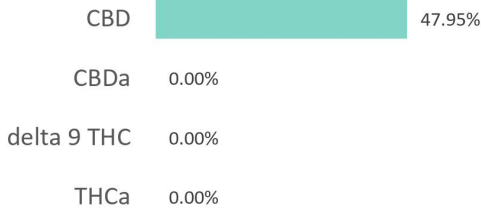
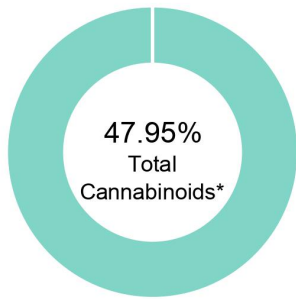


092019\_LAV250\_0002 1

<b>Batch ID:</b>	092019_LAV250_0002	<b>Test ID:</b>	3105497.003
<b>Reported:</b>	7-Nov-2019	<b>Method:</b>	TM14
<b>Type:</b>	Concentrate		
<b>Test:</b>	Potency		

**CANNABINOID PROFILE**


Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.26	0.00	0.0
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.13	0.00	0.0
Cannabidiolic acid (CBDA)	0.30	0.00	0.0
Cannabidiol (CBD)	0.17	47.95	479.5
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.14	0.00	0.0
Cannabinolic Acid (CBNA)	0.35	0.00	0.0
Cannabinol (CBN)	0.16	0.00	0.0
Cannabigerolic acid (CBGA)	0.22	0.00	0.0
Cannabigerol (CBG)	0.13	0.00	0.0
Tetrahydrocannabivarinic Acid (THCVA)	0.22	0.00	0.0
Tetrahydrocannabivarin (THCV)	0.11	0.00	0.0
Cannabidivarinic Acid (CBDVA)	0.28	0.00	0.0
Cannabidivarin (CBDV)	0.15	0.00	0.0
Cannabichromenic Acid (CBCA)	0.19	0.00	0.0
Cannabichromene (CBC)	0.23	0.00	0.0
<b>Total Cannabinoids</b>		<b>47.95</b>	<b>479.50</b>
<b>Total Potential THC**</b>		<b>0.00</b>	<b>0.00</b>
<b>Total Potential CBD**</b>		<b>47.95</b>	<b>479.50</b>

 NOTES:  
 N/A

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)

\* Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.


\*\* Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step.

Total THC = THC + (THCa \*(0.877)) and Total CBD = CBD + (CBDa \*(0.877))

**FINAL APPROVAL**


Daniel Weidensaul  
7-Nov-2019  
6:04 PM

PREPARED BY / DATE



David Green  
7-Nov-2019  
6:07 PM

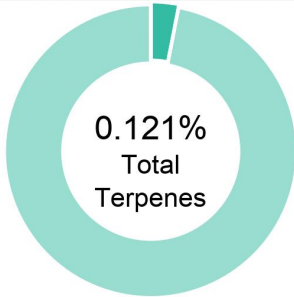
APPROVED BY / DATE

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. ISO/IEC 17025:2005 Accredited A2LA Certificate Number 4329.02



**LAVENDER**

<b>Batch ID:</b>	092019-LAV250-0002	<b>Test ID:</b>	8198484.0024
<b>Reported:</b>	4-Oct-2019	<b>Method:</b>	TM10
<b>Type:</b>	Concentrate		
<b>Test:</b>	Terpenes		

**TERPENE PROFILE**




Compound	%(w/w)	mg/g
(-)-alpha-Bisabolol	0.000	0
Camphene	0.000	0
delta-3-Carene	0.000	0
beta-Caryophyllene	0.000	0
(-)-Caryophyllene Oxide	0.000	0
p-Cymene	0.004	0.04
Eucalyptol	0.000	0
Geraniol	0.000	0
alpha-Humulene	0.000	0
(-)-Isopulegol	0.000	0
d-Limonene	0.000	0
Linalool	0.095	0.95
beta-Myrcene	0.003	0.03
cis-Nerolidol	0.000	0
trans-Nerolidol	0.000	0
Ocimene	0.013	0.13
beta-Ocimene	0.006	0.06
alpha-Pinene	0.000	0
(-)-beta-Pinene	0.000	0
alpha-Terpinene	0.000	0
gamma-Terpinene	0.000	0
Terpinolene	0.000	0
<b>Total</b>	<b>0.121%</b>	<b>1.21</b>

**PREDOMINANT TERPENES**

alpha-Pinene	0.000%
(-)-beta-Pinene	0.000%
beta-Myrcene	0.003%
delta-3-Carene	0.000%
alpha-Terpinene	0.000%
d-Limonene	0.000%
Linalool	0.095%
beta-Caryophyllene	0.000%
alpha-Humulene	0.000%
(-)-alpha-Bisabolol	0.000%

 NOTES:  
 0

**FINAL APPROVAL**

 Daniel Weidensaul 3-Oct-2019 7:51 PM	 David Green 4-Oct-2019 8:24 AM
---	---

PREPARED BY / DATE

APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC. 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. ISO/IEC 17025:2005 Accredited A2LA Certificate Number 4329.02



# CERTIFICATE OF ANALYSIS

prepared for: MYKU BIOSCIENCES LLC  
3715 E. 40TH AVE  
DENVER, CO 80205

## LAVENDER

<b>Batch ID:</b>	092019-LAV250-0002	<b>Test ID:</b>	3856413.004
<b>Reported:</b>	4-Oct-2019	<b>Method:</b>	Concentrate - Test Methods: TM05, TM06
<b>Type:</b>	Concentrate		
<b>Test:</b>	Microbial Contaminants		

## MICROBIAL CONTAMINANTS

Contaminant	Result (CFU/g)*
<b>Total Aerobic Count**</b>	None Detected
<b>Total Coliforms**</b>	None Detected
<b>Total Yeast and Molds**</b>	None Detected
<b>E. coli</b>	None Detected
<b>Salmonella</b>	None Detected

\* CFU/g = Colony Forming Unit per Gram


\*\* Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form.

Examples:  $10^2 = 100$  CFU  
 $10^3 = 1,000$  CFU  
 $10^4 = 10,000$  CFU  
 $10^5 = 100,000$  CFU

### NOTES:

Free from visual mold, mildew, and foreign matter  
TYM: None Detected  
Total Aerobic: None Detected  
Coliforms: None Detected

## FINAL APPROVAL

  
Robert Belfon  
4-Oct-2019  
9:02 AM

  
David Green  
4-Oct-2019  
9:04 AM

PREPARED BY / DATE

APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Services, LLC, in the condition it was received. Botanacor Services, 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 Services, LLC.

**LAVENDER**

<b>Batch ID:</b>	092019-LAV250-0002	<b>Test ID:</b>	8832258.003
<b>Reported:</b>	30-Sep-2019	<b>Method:</b>	TM04
<b>Type:</b>	Concentrate		
<b>Test:</b>	Residual Solvents		

**RESIDUAL SOLVENTS**

Solvent	Reportable Range (ppm)	Result (ppm)
Propane	100 - 2000	0
Butanes (Isobutane, n-Butane)	100 - 2000	0
Pentane	100 - 2000	0
Ethanol	100 - 2000	0
Acetone	100 - 2000	0
Isopropyl Alcohol	100 - 2000	0
Hexane	6 - 120	0
Benzene	0.2 - 4	0.0
Heptanes	100 - 2000	0
Toluene	18 - 360	0
Xylenes (m,p,o-Xylenes)	43 - 860	0

**NOTES:**

Free from visual mold, mildew, and foreign matter.

**FINAL APPROVAL**

 Alex Smith 30-Sep-2019 3:40 PM	 Greg Zimpfer 30-Sep-2019 5:40 PM
---	---

PREPARED BY / DATE

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. ISO/IEC 17025:2005 Accredited A2LA Certificate Number 4329.02



Certificate #4329.02

# Certificate of Analysis

\*Amendment to CoA 190605Q015-002

Sample Name: CBD Disposable Vape - Apple Berry  
 LIMS Sample ID: 190605Q015  
 Batch #:  
 Sample Metric ID:  
 Sample Type: Concentrate, Product Inhalable  
 Batch Count:  
 Sample Count:  
 Unit Mass:  
 Serving Mass:  
 Density:

Date Collected: 06/05/2019  
 Date Received: 06/05/2019  
 Tested for: IGNITE International Ltd.  
 License #:  
 Address: CA  
 Produced by:  
 License #:  
 Address:  
 Overall result for batch:

## Moisture Test Results

Moisture %  
 NT

## Water Activity Test Results

Water Activity Aw  
 NT Action Limit Aw

## Cannabinoid Test Results

06/07/2019

Cannabinoid analysis utilizing High Performance Liquid Chromatography (HPLC, QSP 5-4-4-4)

	mg/g	%	LOD mg/g	LOQ mg/g
THC	ND	ND	0.052	0.158
THCa	ND	ND	0.052	0.156
CBD	441.951	44.1951	0.052	0.158
CBDa	ND	ND	0.052	0.156
CBN	ND	ND	0.052	0.157
CBDV	1.201	0.1201	0.021	0.063
CBDVa	ND	ND	0.037	0.111
CBG	ND	ND	0.030	0.092
CBGa	ND	ND	0.044	0.133
THCV	ND	ND	0.023	0.069
Δ8 - THC	ND	ND	0.053	0.162
CBC	ND	ND	0.031	0.094
THCVa	ND	ND	0.091	0.276
CBL	ND	ND	0.130	0.393
CBCa	ND	ND	0.129	0.392

**Sum of Cannabinoids: 443.152 44.3152**

Total THC (Δ9THC+0.877\*THCa) ND ND  
 Total CBD (CBD+0.877\*CBDA) 441.951 44.1951

THC per Unit  
 THC per Serving  
 Action Limit mg

## Batch Photo



## Terpene Test Results

06/09/2019

Terpene analysis utilizing Gas Chromatography - Flame Ionization Detection (GC - FID)

	mg/g	%	LOD mg/g	LOQ mg/g
Pinene	ND	ND	0.044	0.135
Camphene	ND	ND	0.053	0.16
Sabinene	ND	ND	0.054	0.165
Pinene	ND	ND	0.054	0.162
Myrcene	ND	ND	0.054	0.164
Phellandrene	ND	ND	0.073	0.222
3 Carene	ND	ND	0.057	0.174
Terpinene	ND	ND	0.06	0.18
Limonene	ND	ND	0.026	0.078
Eucalyptol	ND	ND	0.042	0.126
Ocimene	ND	ND	0.056	0.171
Terpinene	ND	ND	0.06	0.181
Sabinene Hydrate	ND	ND	0.036	0.108
Fenchone	ND	ND	0.061	0.184
Terpinolene	ND	ND	0.045	0.135
Linalool	0.453	0.0453	0.038	0.116
Fenchol	ND	ND	0.045	0.138
(-)-Isopulegol	ND	ND	0.026	0.08
Camphor	ND	ND	0.108	0.327
Isoborneol	ND	ND	0.066	0.201
Borneol	ND	ND	0.097	0.293
Menthol	ND	ND	0.044	0.135
Terpineol	ND	ND	0.045	0.136
Nerol	ND	ND	0.045	0.137
R-(+)-Pulegone	ND	ND	0.045	0.135
Geraniol	ND	ND	0.033	0.1
Geranyl Acetate	ND	ND	0.031	0.095
Cedrene	ND	ND	0.034	0.102
Caryophyllene	ND	ND	0.036	0.108
Humulene	ND	ND	0.025	0.076
Valencene	ND	ND	0.015	0.046
Nerolidol	ND	ND	0.07	0.212
Caryophyllene Oxide	ND	ND	0.055	0.167
Guaiol	ND	ND	0.044	0.132
Cedrol	ND	ND	0.057	0.173
Bisabolol	ND	ND	0.034	0.102

**Total Terpene Concentration: 0.453 0.0453**

## Sample Certification

California Code of Regulations Title 16 Effect Date January 16, 2019  
 Authority: Section 26013, Business and Professions Code.  
 Reference: Sections 26100, 26104 and 26110, Business and Professions Code.



Scan to verify at sclabs.com  
 Sample must be marked as public to be viewable

*Danielle Deschene*  
 Danielle Deschene, LQC Verified By  
 Date: 06/10/2019

*Josh Wurzer*  
 Josh Wurzer, President  
 Date: 06/10/2019  
 CoA ID: 190605Q015-003 - Page 1 of 3



# Certificate of Analysis

\*Amendment to CoA 190605Q015-002

Sample Name: CBD Disposable Vape - Apple Berry  
 LIMS Sample ID: 190605Q015  
 Batch #:  
 Sample Metric ID:  
 Sample Type: Concentrate, Product Inhalable  
 Batch Count:  
 Sample Count:  
 Unit Mass:  
 Serving Mass:  
 Density:

Date Collected: 06/05/2019  
 Date Received: 06/05/2019  
 Tested for: IGNITE International Ltd.  
 License #:  
 Address: CA  
 Produced by:  
 License #:  
 Address:  
 Overall result for batch:

## Pesticide Test Results 06/09/2019

Pesticide, Fungicide and plant growth regulator analysis utilizing HPLC-Mass Spectrometry

	µg/g	Action Limit µg/g	Reporting Limit µg/g
Abamectin	ND	0.1	0.091
Bifenazate	ND	0.1	0.035
Bifenthrin	ND	3.0	0.038
Boscalid	ND	0.1	0.023
Etoxazole	ND	0.1	0.022
Imidacloprid	ND	5.0	0.050
Myclobutanil	ND	0.1	0.044
Piperonylbutoxide	ND	3.0	0.020
Pyrethrins	ND	0.5	0.036
Spinosad	ND	0.1	0.031
Spiromesifen	ND	0.1	0.015
Spirotetramat	ND	0.1	0.042

## Heavy Metal Test Results

Heavy metal analysis utilizing Inductively Coupled Plasma Mass Spectrometry (ICP-MS)

	µg/g	Action Limit µg/g	LOD µg/g	LOQ µg/g
Cadmium	NT			
Lead	NT			
Arsenic	NT			
Mercury	NT			

## Mycotoxin Test Results

Mycotoxin analysis utilizing HPLC-Mass Spectrometry

	µg/kg	Action Limit µg/kg	LOD µg/kg	LOQ µg/kg
Aflatoxin B1, B2, G1, G2	NT			
Ochratoxin A	NT			

## Sample Certification

California Code of Regulations Title 16 Effect Date January 16, 2019  
 Authority: Section 26013, Business and Professions Code.  
 Reference: Sections 26100, 26104 and 26110, Business and Professions Code.



Scan to verify at sclabs.com  
 Sample must be marked as public to be viewable

*Danielle Deschene*  
 Danielle Deschene, LQC Verified By  
 Date: 06/10/2019

*Josh Wurzer*  
 Josh Wurzer, President  
 Date: 06/10/2019  
 CoA ID: 190605Q015-003 - Page 2 of 3

# Certificate of Analysis

\*Amendment to CoA 190605Q015-002

Sample Name: CBD Disposable Vape - Apple Berry  
 LIMS Sample ID: 190605Q015  
 Batch #:  
 Sample Metric ID:  
 Sample Type: Concentrate, Product Inhalable  
 Batch Count:  
 Sample Count:  
 Unit Mass:  
 Serving Mass:  
 Density:

Date Collected: 06/05/2019  
 Date Received: 06/05/2019  
 Tested for: IGNITE International Ltd.  
 License #:  
 Address: CA  
 Produced by:  
 License #:  
 Address:  
 Overall result for batch:

## Residual Solvent Test Results

Residual Solvent analysis utilizing Gas Chromatography - Mass Spectrometry (GC - MS)

	µg/g	Action Limit µg/g	LOD µg/g	LOQ µg/g
1,2-Dichloroethane	NT			
Benzene	NT			
Chloroform	NT			
Ethylene Oxide	NT			
Methylene chloride	NT			
Trichloroethylene	NT			
Acetone	NT			
Acetonitrile	NT			
Butane	NT			
Ethanol	NT			
Ethyl acetate	NT			
Ethyl ether	NT			
Heptane	NT			
Hexane	NT			
Isopropyl Alcohol	NT			
Methanol	NT			
Pentane	NT			
Propane	NT			
Toluene	NT			
Total Xylenes	NT			

## Note

## Microbiological Test Results

PCR and fluorescence detection of microbiological impurities

	Action Limit
Shiga toxin-producing Escherichia coli	NT
Salmonella spp.	NT
Aspergillus fumigatus	NT
Aspergillus flavus	NT
Aspergillus niger	NT
Aspergillus terreus	NT

## Foreign Material Test Results

NT

## Sample Certification

California Code of Regulations Title 16 Effect Date January 16, 2019  
 Authority: Section 26013, Business and Professions Code.  
 Reference: Sections 26100, 26104 and 26110, Business and Professions Code.



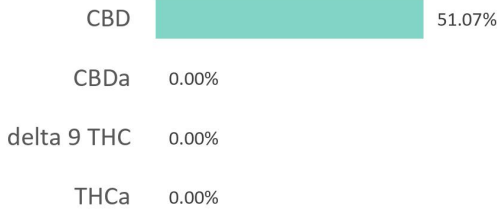
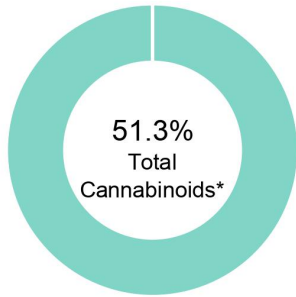
Scan to verify at sclabs.com  
 Sample must be marked as public to be viewable

*Danielle Deschene*  
 Danielle Deschene, LQC Verified By  
 Date: 06/10/2019

*Josh Wurzer*  
 Josh Wurzer, President  
 Date: 06/10/2019  
 CoA ID: 190605Q015-003 - Page 3 of 3

**Ignite BO Vape**

<b>Batch ID:</b>	072019-B0250-0001	<b>Test ID:</b>	5993391.0013
<b>Reported:</b>	26-Jul-2019	<b>Method:</b>	TM14
<b>Type:</b>	Concentrate		
<b>Test:</b>	Potency		

**CANNABINOID PROFILE**


Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.26	0.00	0.0
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.13	0.00	0.0
Cannabidiolic acid (CBDA)	0.20	0.00	0.0
Cannabidiol (CBD)	0.11	51.07	510.7
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.14	0.00	0.0
Cannabinolic Acid (CBNA)	0.36	0.00	0.0
Cannabinol (CBN)	0.16	0.00	0.0
Cannabigerolic acid (CBGA)	0.23	0.00	0.0
Cannabigerol (CBG)	0.13	0.00	0.0
Tetrahydrocannabivarinic Acid (THCVA)	0.23	0.00	0.0
Tetrahydrocannabivarin (THCV)	0.12	0.00	0.0
Cannabidivarinic Acid (CBDVA)	0.19	0.00	0.0
Cannabidivarin (CBDV)	0.10	0.23	2.3
Cannabichromenic Acid (CBCA)	0.20	0.00	0.0
Cannabichromene (CBC)	0.24	0.00	0.0
<b>Total Cannabinoids</b>		<b>51.30</b>	<b>513.00</b>
<b>Total Potential THC**</b>		<b>0.00</b>	<b>0.00</b>
<b>Total Potential CBD**</b>		<b>51.07</b>	<b>510.70</b>

 NOTES:  
 N/A

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)  
 \* Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.  
 \*\* Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step.  
 Total THC = THC + (THCa \*(0.877)) and Total CBD = CBD + (CBDa \*(0.877))

**FINAL APPROVAL**

  
 Alex Smith  
 26-Jul-2019  
 10:51 AM  
 PREPARED BY / DATE

  
 Greg Zimpfer  
 26-Jul-2019  
 12:05 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. ISO/IEC 17025:2005 Accredited A2LA Certificate Number 4329.02







Innovational Laboratories, LLC.  
5555 W Brooks St.  
Montclair, CA 91763  
Tel 909-230 6210  
Fax 909-230 6211  
www.ilab-us.com

CoA # 19081924  
CoA Date 08/19/2019  
CoA Status Final

## CERTIFICATE OF ANALYSIS

<b>Customer</b>	MYKU Biosciences LLC	<b>Date Received</b>	8/12/2019
<b>Address</b>	3715 E 40th Ave. Denver CO 80205	<b>Condition</b>	Good
		<b>Temp</b>	Ambient
<b>Sample Name</b>	BO250_0001	<b>PO #</b>	
<b>Sample Lot #</b>	NA	<b>Remarks</b>	RUSH

Analysis	Specification	Test Result	Test Method	Test Date
Pesticides				
DDT	N/A	Pass <0.500 ppm	GC-MS	08/14/2019
Alachlor	N/A	Pass <0.500 ppm	GC-MS	as above
Aldin	N/A	Pass <0.025 ppm	GC-MS	as above
Azinphos-ethyl	N/A	Pass <3.000 ppm	GC-MS	as above
Azinphos-methyl	N/A	Pass <0.500 ppm	GC-MS	as above
Bromophos-ethyl	N/A	Pass <0.050 ppm	GC-MS	as above
Bromophos-methyl	N/A	Pass <0.500 ppm	GC-MS	as above
Bromopropylate	N/A	Pass <2.000 ppm	GC-MS	as above
Chlordane	N/A	Pass <0.025 ppm	GC-MS	as above
Chlorfenvinphos	N/A	Pass <0.500 ppm	GC-MS	as above
Chlorpyrifos	N/A	Pass <0.150 ppm	GC-MS	as above
Chlorpyrifos-methyl	N/A	Pass <2.000 ppm	GC-MS	as above
Chlorthal-dimethyl	N/A	Pass <1.000 ppm	GC-MS	as above
Cyfluthrin	N/A	Pass <0.100 ppm	GC-MS	as above
Cyhalothrin-Lambda	N/A	Pass <0.150 ppm	GC-MS	as above
Cypermethrin	N/A	Pass <0.150 ppm	GC-MS	as above
Deltamethrin	N/A	Pass <0.500 ppm	GC-MS	as above
Diazinon	N/A	Pass <2.000 ppm	GC-MS	as above
Dichlofluanid	N/A	Pass <1.000 ppm	GC-MS	as above
Dichlorvos	N/A	Pass <0.050 ppm	GC-MS	as above
Dicofol	N/A	Pass <0.500 ppm	GC-MS	as above
Dieldrin	N/A	Pass <0.025 ppm	GC-MS	as above
Dimethoate	N/A	Pass <1.000 ppm	GC-MS	as above
Endosulfan	N/A	Pass <0.250 ppm	GC-MS	as above
Endrin	N/A	Pass <0.025 ppm	GC-MS	as above
Ethion	N/A	Pass <0.500 ppm	GC-MS	as above
Etrimphos	N/A	Pass <0.250 ppm	GC-MS	as above
Fenchlorophos	N/A	Pass <0.500 ppm	GC-MS	as above
Fenitrothion	N/A	Pass <1.000 ppm	GC-MS	as above
Fenpropathrin	N/A	Pass <0.050 ppm	GC-MS	as above
Fensulfothion	N/A	Pass <0.500 ppm	GC-MS	as above
Fenthion	N/A	Pass <0.250 ppm	GC-MS	as above
Fenvalerate	N/A	Pass <0.010 ppm	GC-MS	as above
Flucytrinate	N/A	Pass <0.100 ppm	GC-MS	as above
Fluvalinate-Tau	N/A	Pass <0.250 ppm	GC-MS	as above
Fonofos	N/A	Pass <0.150 ppm	GC-MS	as above
Heptachlor	N/A	Pass <0.075 ppm	GC-MS	as above
Hexachlorbenzene	N/A	Pass <0.100 ppm	GC-MS	as above

Authorized by

*Hadi Habib* 8/19/19

Hadi Habib, M.Sc / Technical Deputy

These results apply only to the items tested. This certificate of analysis shall not be reproduced except in full without written consent of iLab.  
Estimation of uncertainty of measurement is available upon request.



Innovational Laboratories, LLC.  
5555 W Brooks St.  
Montclair, CA 91763  
Tel 909-230 6210  
Fax 909-230 6211  
www.ilab-us.com

CoA # 19081924  
CoA Date 08/19/2019  
CoA Status Final

## CERTIFICATE OF ANALYSIS

<b>Customer</b>	MYKU Biosciences LLC	<b>Date Received</b>	8/12/2019
<b>Address</b>	3715 E 40th Ave. Denver CO 80205	<b>Condition</b>	Good
<b>Sample Name</b>	BO250_0001	<b>Temp</b>	Ambient
<b>Sample Lot #</b>	NA	<b>PO #</b>	
		<b>Remarks</b>	RUSH

Analysis	Specification	Test Result	Test Method	Test Date
Hexachlorocyclohexane	N/A	Pass <0.025 ppm	GC-MS	as above
Lindane	N/A	Pass <0.250 ppm	GC-MS	as above
Malaoxon	N/A	Pass <0.100 ppm	GC-MS	as above
Malathion	N/A	Pass <0.250 ppm	GC-MS	as above
Mecarbam	N/A	Pass <0.500 ppm	GC-MS	as above
Methacrifos	N/A	Pass <0.025 ppm	GC-MS	as above
Methamidophos	N/A	Pass <0.005 ppm	GC-MS	as above
Methidathion	N/A	Pass <0.100 ppm	GC-MS	as above
Methoxychlor	N/A	Pass <2.000 ppm	GC-MS	as above
Parathion-ethyl	N/A	Pass <1.000 ppm	GC-MS	as above
Mirex	N/A	Pass <1.000 ppm	GC-MS	as above
Monocrotophos	N/A	Pass <0.050 ppm	GC-MS	as above
Omethoate	N/A	Pass <0.500 ppm	GC-MS	as above
Paraoxon-ethyl	N/A	Pass <0.025 ppm	GC-MS	as above
Paraoxon	N/A	Pass <2.000 ppm	GC-MS	as above
Parathion-methyl	N/A	Pass <1.000 ppm	GC-MS	as above
Pendimethalin	N/A	Pass <1.000 ppm	GC-MS	as above
Pentachloroanisole	N/A	Pass <0.025 ppm	GC-MS	as above
Permethrin	N/A	Pass <0.025 ppm	GC-MS	as above
Phosalone	N/A	Pass <2.000 ppm	GC-MS	as above
Phosmet	N/A	Pass <0.500 ppm	GC-MS	as above
Piperonylbutoxide	N/A	Pass <1.000 ppm	GC-MS	as above
Pirimiphos-ethyl	N/A	Pass <0.050 ppm	GC-MS	as above
Pirimiphos-methyl	N/A	Pass <0.250 ppm	GC-MS	as above
Procymidone	N/A	Pass <1.000 ppm	GC-MS	as above
Profenofos	N/A	Pass <2.000 ppm	GC-MS	as above
Prothiofos	N/A	Pass <0.500 ppm	GC-MS	as above
Pyrethrum	N/A	Pass <0.250 ppm	GC-MS	as above
Quinalphos	N/A	Pass <0.500 ppm	GC-MS	as above
Quintozene	N/A	Pass <1.000 ppm	GC-MS	as above
S-421	N/A	Pass <0.500 ppm	GC-MS	as above
Tecnazene	N/A	Pass <0.100 ppm	GC-MS	as above
Tetradifon	N/A	Pass <0.250 ppm	GC-MS	as above
Vinclozolin	N/A	Pass <1.000 ppm	GC-MS	as above
Residual Solvents				
Methanol	N/A	Pass <3000 ppm	USP <467>	08/19/2019
Acetonitrile	N/A	Pass <410 ppm	USP <467>	as above
Dichloromethane	N/A	Pass <600 ppm	USP <467>	as above

Authorized by Hadi Habib 8/19/19  
Hadi Habib, M.Sc / Technical Deputy

These results apply only to the items tested. This certificate of analysis shall not be reproduced except in full without written consent of iLab.  
Estimation of uncertainty of measurement is available upon request.



Innovational Laboratories, LLC.  
5555 W Brooks St.  
Montclair, CA 91763  
Tel 909-230 6210  
Fax 909-230 6211  
www.ilab-us.com

CoA # 19081924  
CoA Date 08/19/2019  
CoA Status Final

## CERTIFICATE OF ANALYSIS

<b>Customer Address</b>	MYKU Biosciences LLC 3715 E 40th Ave. Denver CO 80205	<b>Date Received</b>	8/12/2019
<b>Sample Name</b>	BO250_0001	<b>Condition</b>	Good
<b>Sample Lot #</b>	NA	<b>Temp</b>	Ambient
		<b>PO #</b>	
		<b>Remarks</b>	RUSH

Analysis	Specification	Test Result	Test Method	Test Date
trans-1, 2-Dichloroethene	N/A	Pass <1870 ppm	USP <467>	as above
cis-1, 2-Dichloroethene	N/A	Pass <1870 ppm	USP <467>	as above
Tetrahydrofuran	N/A	Pass <720 ppm	USP <467>	as above
Cyclohexane	N/A	Pass <3880 ppm	USP <467>	as above
Methylcyclohexane	N/A	Pass <1180 ppm	USP <467>	as above
1,4-Dioxane	N/A	Pass <380 ppm	USP <467>	as above
Toluene	N/A	Pass <890 ppm	USP <467>	as above
Chlorobenzene	N/A	Pass <360 ppm	USP <467>	as above
Ethylbenzene	N/A	Pass <368.9 ppm	USP <467>	as above
m-Xylene	N/A	Pass <1302 ppm	USP <467>	as above
p-Xylene	N/A	Pass <368.9 ppm	USP <467>	as above
o-Xylene	N/A	Pass <195.3 ppm	USP <467>	as above
n-Hexane	N/A	Pass <290 ppm	USP <467>	as above
Nitromethane	N/A	Pass <50 ppm	USP <467>	as above
Chloroform	N/A	Pass <60 ppm	USP <467>	as above
1,2-Dimethoxyethane	N/A	Pass <100 ppm	USP <467>	as above
Trichloroethylene	N/A	Pass <80 ppm	USP <467>	as above
Pyridine	N/A	Pass <200 ppm	USP <467>	as above
2-Hexanone	N/A	Pass <50 ppm	USP <467>	as above
Tetralin	N/A	Pass <100 ppm	USP <467>	as above
Ethanol	N/A	Pass <5000 ppm	USP <467>	as above
Terpenes				
alpha-Pinene	N/A	0.12mg / g	GC	08/12/2019
Camphene	N/A	Not Detected	GC	as above
Beta-Myrcene	N/A	0.18mg / g	GC	as above
Beta-Pinene	N/A	Not Detected	GC	as above
3-Carene	N/A	Not Detected	GC	as above
alpha-Terpinene	N/A	Not Detected	GC	as above
Ocimene	N/A	Not Detected	GC	as above
Limonene	N/A	8.55mg / g	GC	as above
P-Cymene	N/A	Not Detected	GC	as above
Beta-Ocimene	N/A	Not Detected	GC	as above
Eucalyptol	N/A	Not Detected	GC	as above
gamma-Terpinene	N/A	Not Detected	GC	as above
Terpinolene	N/A	Not Detected	GC	as above
Linalool	N/A	0.04mg / g	GC	as above
Isopulegol	N/A	Not Detected	GC	as above
Geraniol	N/A	Not Detected	GC	as above

Authorized by Hadi Habib 8/19/19  
Hadi Habib, M.Sc / Technical Deputy

These results apply only to the items tested. This certificate of analysis shall not be reproduced except in full without written consent of iLab.  
Estimation of uncertainty of measurement is available upon request.



Innovational Laboratories, LLC.  
5555 W Brooks St.  
Montclair, CA 91763  
Tel 909-230 6210  
Fax 909-230 6211  
www.ilab-us.com

CoA # 19081924  
CoA Date 08/19/2019  
CoA Status Final

## CERTIFICATE OF ANALYSIS

<b>Customer</b>	MYKU Biosciences LLC	<b>Date Received</b>	8/12/2019
<b>Address</b>	3715 E 40th Ave. Denver CO 80205	<b>Condition</b>	Good
<b>Sample Name</b>	BO250_0001	<b>Temp</b>	Ambient
<b>Sample Lot #</b>	NA	<b>PO #</b>	
		<b>Remarks</b>	RUSH

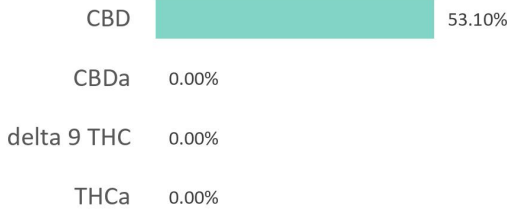
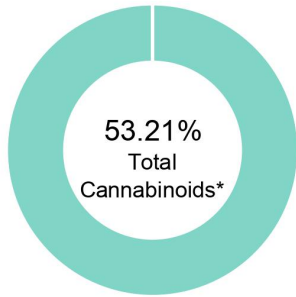
Analysis	Specification	Test Result	Test Method	Test Date
Beta-Caryophyllene	N/A	Not Detected	GC	as above
alpha-Humulene	N/A	Not Detected	GC	as above
Nerolidol 1	N/A	Not Detected	GC	as above
Nerolidol 2	N/A	Not Detected	GC	as above
Guaiol	N/A	Not Detected	GC	as above
Caryophyllene oxide	N/A	Not Detected	GC	as above
alpha-Bisabolol	N/A	Not Detected	GC	as above
Heavy Metals				
Arsenic (As)	N/A	<0.004 ppm	ICP-MS (STP-021)	08/13/2019
Cadmium (Cd)	N/A	<0.004 ppm	ICP-MS (STP-021)	as above
Mercury (Hg)	N/A	<0.001 ppm	ICP-MS (STP-021)	as above
Lead (Pb)	N/A	0.005 ppm	ICP-MS (STP-021)	as above
Microbiology				
TPC	N/A	<10 cfu/g	AOAC 966.23	08/12/2019
Yeast	N/A	<10 cfu/g	AOAC 2014.05	as above
Mold	N/A	<10 cfu/g	AOAC 2014.05	as above
Coliforms	N/A	<10 cfu/g	AOAC 991.14	as above
E. coli	N/A	Negative / 10g	AOAC 991.14	as above
Salmonella	N/A	Negative / 10g	AOAC 989.13	as above
Staphylococcus aureus	N/A	Negative / 10g	AOAC 2003.07	as above

Authorized by Hadi Habib 8/19/19  
Hadi Habib, M.Sc / Technical Deputy

These results apply only to the items tested. This certificate of analysis shall not be reproduced except in full without written consent of iLab.  
Estimation of uncertainty of measurement is available upon request.

**Ignite Spear Vape**

<b>Batch ID:</b>	072019-Spearmint250-0001	<b>Test ID:</b>	5993391.0014
<b>Reported:</b>	26-Jul-2019	<b>Method:</b>	TM14
<b>Type:</b>	Concentrate		
<b>Test:</b>	Potency		

**CANNABINOID PROFILE**


Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.22	0.00	0.0
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.11	0.00	0.0
Cannabidiolic acid (CBDA)	0.17	0.00	0.0
Cannabidiol (CBD)	0.09	53.10	531.0
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.12	0.00	0.0
Cannabinolic Acid (CBNA)	0.30	0.00	0.0
Cannabinol (CBN)	0.13	0.00	0.0
Cannabigerolic acid (CBGA)	0.19	0.00	0.0
Cannabigerol (CBG)	0.11	0.00	0.0
Tetrahydrocannabivarinic Acid (THCVA)	0.19	0.00	0.0
Tetrahydrocannabivarin (THCV)	0.10	0.00	0.0
Cannabidivarinic Acid (CBDVA)	0.16	0.00	0.0
Cannabidivarin (CBDV)	0.09	0.11	1.1
Cannabichromenic Acid (CBCA)	0.17	0.00	0.0
Cannabichromene (CBC)	0.20	0.00	0.0
<b>Total Cannabinoids</b>		<b>53.21</b>	<b>532.10</b>
<b>Total Potential THC**</b>		<b>0.00</b>	<b>0.00</b>
<b>Total Potential CBD**</b>		<b>53.10</b>	<b>531.00</b>

 NOTES:  
 N/A

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)  
 \* Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.  
 \*\* Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step.  
 Total THC = THC + (THCa \*(0.877)) and Total CBD = CBD + (CBDa \*(0.877))

**FINAL APPROVAL**

*Alex Smith*  
 Alex Smith  
 26-Jul-2019  
 10:51 AM  
 PREPARED BY / DATE

*Greg Zimpfer*  
 Greg Zimpfer  
 26-Jul-2019  
 12:05 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. ISO/IEC 17025:2005 Accredited A2LA Certificate Number 4329.02





Innovational Laboratories, LLC.  
 5555 W Brooks St.  
 Montclair, CA 91763  
 Tel 909-230 6210  
 Fax 909-230 6211  
 www.ilab-us.com

CoA # 19081925  
 CoA Date 08/19/2019  
 CoA Status Final

## CERTIFICATE OF ANALYSIS

<b>Customer</b>	MYKU Biosciences LLC	<b>Date Received</b>	8/12/2019
<b>Address</b>	3715 E 40th Ave. Denver CO 80205	<b>Condition</b>	Good
		<b>Temp</b>	Ambient
<b>Sample Name</b>	Spearmint 250_0001	<b>PO #</b>	
<b>Sample Lot #</b>	NA	<b>Remarks</b>	RUSH

Analysis	Specification	Test Result	Test Method	Test Date
Pesticides				
DDT	N/A	Pass <0.500 ppm	GC-MS	08/14/2019
Alachlor	N/A	Pass <0.500 ppm	GC-MS	as above
Aldin	N/A	Pass <0.025 ppm	GC-MS	as above
Azinphos-ethyl	N/A	Pass <3.000 ppm	GC-MS	as above
Azinphos-methyl	N/A	Pass <0.500 ppm	GC-MS	as above
Bromophos-ethyl	N/A	Pass <0.050 ppm	GC-MS	as above
Bromophos-methyl	N/A	Pass <0.500 ppm	GC-MS	as above
Bromopropylate	N/A	Pass <2.000 ppm	GC-MS	as above
Chlordane	N/A	Pass <0.025 ppm	GC-MS	as above
Chlorfenvinphos	N/A	Pass <0.500 ppm	GC-MS	as above
Chlorpyrifos	N/A	Pass <0.150 ppm	GC-MS	as above
Chlorpyrifos-methyl	N/A	Pass <2.000 ppm	GC-MS	as above
Chlorthal-dimethyl	N/A	Pass <1.000 ppm	GC-MS	as above
Cyfluthrin	N/A	Pass <0.100 ppm	GC-MS	as above
Cyhalothrin-Lambda	N/A	Pass <0.150 ppm	GC-MS	as above
Cypermethrin	N/A	Pass <0.150 ppm	GC-MS	as above
Deltamethrin	N/A	Pass <0.500 ppm	GC-MS	as above
Diazinon	N/A	Pass <2.000 ppm	GC-MS	as above
Dichlofluanid	N/A	Pass <1.000 ppm	GC-MS	as above
Dichlorvos	N/A	Pass <0.050 ppm	GC-MS	as above
Dicofol	N/A	Pass <0.500 ppm	GC-MS	as above
Dieldrin	N/A	Pass <0.025 ppm	GC-MS	as above
Dimethoate	N/A	Pass <1.000 ppm	GC-MS	as above
Endosulfan	N/A	Pass <0.250 ppm	GC-MS	as above
Endrin	N/A	Pass <0.025 ppm	GC-MS	as above
Ethion	N/A	Pass <0.500 ppm	GC-MS	as above
Etrimphos	N/A	Pass <0.250 ppm	GC-MS	as above
Fenchlorophos	N/A	Pass <0.500 ppm	GC-MS	as above
Fenitrothion	N/A	Pass <1.000 ppm	GC-MS	as above
Fenpropathrin	N/A	Pass <0.050 ppm	GC-MS	as above
Fensulfothion	N/A	Pass <0.500 ppm	GC-MS	as above
Fenthion	N/A	Pass <0.250 ppm	GC-MS	as above
Fenvalerate	N/A	Pass <0.010 ppm	GC-MS	as above
Flucytrinatre	N/A	Pass <0.100 ppm	GC-MS	as above
Fluvalinate-Tau	N/A	Pass <0.250 ppm	GC-MS	as above
Fonofos	N/A	Pass <0.150 ppm	GC-MS	as above
Heptachlor	N/A	Pass <0.075 ppm	GC-MS	as above
Hexachlorbenzene	N/A	Pass <0.100 ppm	GC-MS	as above

Authorized by Hadi Habib 8/19/19  
 Hadi Habib, M.Sc / Technical Deputy

These results apply only to the items tested. This certificate of analysis shall not be reproduced except in full without written consent of iLab.  
 Estimation of uncertainty of measurement is available upon request.



Innovational Laboratories, LLC.  
5555 W Brooks St.  
Montclair, CA 91763  
Tel 909-230 6210  
Fax 909-230 6211  
www.ilab-us.com

CoA # 19081925  
CoA Date 08/19/2019  
CoA Status Final

## CERTIFICATE OF ANALYSIS

<b>Customer</b>	MYKU Biosciences LLC	<b>Date Received</b>	8/12/2019
<b>Address</b>	3715 E 40th Ave. Denver CO 80205	<b>Condition</b>	Good
<b>Sample Name</b>	Spearmint 250_0001	<b>Temp</b>	Ambient
<b>Sample Lot #</b>	NA	<b>PO #</b>	
		<b>Remarks</b>	RUSH

Analysis	Specification	Test Result	Test Method	Test Date
Hexachlorocyclohexane	N/A	Pass <0.025 ppm	GC-MS	as above
Lindane	N/A	Pass <0.250 ppm	GC-MS	as above
Malaoxon	N/A	Pass <0.100 ppm	GC-MS	as above
Malathion	N/A	Pass <0.250 ppm	GC-MS	as above
Mecarbam	N/A	Pass <0.500 ppm	GC-MS	as above
Methacrifos	N/A	Pass <0.025 ppm	GC-MS	as above
Methamidophos	N/A	Pass <0.005 ppm	GC-MS	as above
Methidathion	N/A	Pass <0.100 ppm	GC-MS	as above
Methoxychlor	N/A	Pass <2.000 ppm	GC-MS	as above
Parathion-ethyl	N/A	Pass <1.000 ppm	GC-MS	as above
Mirex	N/A	Pass <1.000 ppm	GC-MS	as above
Monocrotophos	N/A	Pass <0.050 ppm	GC-MS	as above
Omethoate	N/A	Pass <0.500 ppm	GC-MS	as above
Paraoxon-ethyl	N/A	Pass <0.025 ppm	GC-MS	as above
Paraoxon	N/A	Pass <2.000 ppm	GC-MS	as above
Parathion-methyl	N/A	Pass <1.000 ppm	GC-MS	as above
Pendimethalin	N/A	Pass <1.000 ppm	GC-MS	as above
Pentachloroanisole	N/A	Pass <0.025 ppm	GC-MS	as above
Permethrin	N/A	Pass <0.025 ppm	GC-MS	as above
Phosalone	N/A	Pass <2.000 ppm	GC-MS	as above
Phosmet	N/A	Pass <0.500 ppm	GC-MS	as above
Piperonylbutoxide	N/A	Pass <1.000 ppm	GC-MS	as above
Pirimiphos-ethyl	N/A	Pass <0.050 ppm	GC-MS	as above
Pirimiphos-methyl	N/A	Pass <0.250 ppm	GC-MS	as above
Procymidone	N/A	Pass <1.000 ppm	GC-MS	as above
Profenofos	N/A	Pass <2.000 ppm	GC-MS	as above
Prothiofos	N/A	Pass <0.500 ppm	GC-MS	as above
Pyrethrum	N/A	Pass <0.250 ppm	GC-MS	as above
Quinalphos	N/A	Pass <0.500 ppm	GC-MS	as above
Quintozene	N/A	Pass <1.000 ppm	GC-MS	as above
S-421	N/A	Pass <0.500 ppm	GC-MS	as above
Tecnazene	N/A	Pass <0.100 ppm	GC-MS	as above
Tetradifon	N/A	Pass <0.250 ppm	GC-MS	as above
Vinclozolin	N/A	Pass <1.000 ppm	GC-MS	as above
Residual Solvents				
Methanol	N/A	Pass <3000 ppm	USP <467>	08/19/2019
Acetonitrile	N/A	Pass <410 ppm	USP <467>	as above
Dichloromethane	N/A	Pass <600 ppm	USP <467>	as above

Authorized by

*Hadi Habib* 8/19/19  
Hadi Habib, M.Sc / Technical Deputy

These results apply only to the items tested. This certificate of analysis shall not be reproduced except in full without written consent of iLab.  
Estimation of uncertainty of measurement is available upon request.



Innovational Laboratories, LLC.  
5555 W Brooks St.  
Montclair, CA 91763  
Tel 909-230 6210  
Fax 909-230 6211  
www.ilab-us.com

CoA # 19081925  
CoA Date 08/19/2019  
CoA Status Final

## CERTIFICATE OF ANALYSIS

<b>Customer</b>	MYKU Biosciences LLC	<b>Date Received</b>	8/12/2019
<b>Address</b>	3715 E 40th Ave. Denver CO 80205	<b>Condition</b>	Good
<b>Sample Name</b>	Spearmint 250_0001	<b>Temp</b>	Ambient
<b>Sample Lot #</b>	NA	<b>PO #</b>	
		<b>Remarks</b>	RUSH

Analysis	Specification	Test Result	Test Method	Test Date
trans-1, 2-Dichloroethene	N/A	Pass <1870 ppm	USP <467>	as above
cis-1, 2-Dichloroethene	N/A	Pass <1870 ppm	USP <467>	as above
Tetrahydrofuran	N/A	Pass <720 ppm	USP <467>	as above
Cyclohexane	N/A	Pass <3880 ppm	USP <467>	as above
Methylcyclohexane	N/A	Pass <1180 ppm	USP <467>	as above
1,4-Dioxane	N/A	Pass <380 ppm	USP <467>	as above
Toluene	N/A	Pass <890 ppm	USP <467>	as above
Chlorobenzene	N/A	Pass <360 ppm	USP <467>	as above
Ethylbenzene	N/A	Pass <368.9 ppm	USP <467>	as above
m-Xylene	N/A	Pass <1302 ppm	USP <467>	as above
p-Xylene	N/A	Pass <368.9 ppm	USP <467>	as above
o-Xylene	N/A	Pass <195.3 ppm	USP <467>	as above
n-Hexane	N/A	Pass <290 ppm	USP <467>	as above
Nitromethane	N/A	Pass <50 ppm	USP <467>	as above
Chloroform	N/A	Pass <60 ppm	USP <467>	as above
1,2-Dimethoxyethane	N/A	Pass <100 ppm	USP <467>	as above
Trichloroethylene	N/A	Pass <80 ppm	USP <467>	as above
Pyridine	N/A	Pass <200 ppm	USP <467>	as above
2-Hexanone	N/A	Pass <50 ppm	USP <467>	as above
Tetralin	N/A	Pass <100 ppm	USP <467>	as above
Ethanol	N/A	Pass <5000 ppm	USP <467>	as above
Terpenes				
alpha-Pinene	N/A	0.16mg / g	GC	08/12/2019
Camphene	N/A	Not Detected	GC	as above
Beta-Myrcene	N/A	0.39mg / g	GC	as above
Beta-Pinene	N/A	0.19mg / g	GC	as above
3-Carene	N/A	0.06mg / g	GC	as above
alpha-Terpinene	N/A	Not Detected	GC	as above
Ocimene	N/A	6.57mg / g	GC	as above
Limonene	N/A	7.46mg / g	GC	as above
P-Cymene	N/A	Not Detected	GC	as above
Beta-Ocimene	N/A	Not Detected	GC	as above
Eucalyptol	N/A	0.47mg / g	GC	as above
gamma-Terpinene	N/A	0.04mg / g	GC	as above
Terpinolene	N/A	0.04mg / g	GC	as above
Linalool	N/A	0.06mg / g	GC	as above
Isopulegol	N/A	Not Detected	GC	as above
Geraniol	N/A	Not Detected	GC	as above

Authorized by

*Hadi Habib* 8/19/19

Hadi Habib, M.Sc / Technical Deputy

These results apply only to the items tested. This certificate of analysis shall not be reproduced except in full without written consent of iLab.  
Estimation of uncertainty of measurement is available upon request.





Innovational Laboratories, LLC.  
5555 W Brooks St.  
Montclair, CA 91763  
Tel 909-230 6210  
Fax 909-230 6211  
www.ilab-us.com

CoA # 19081925  
CoA Date 08/19/2019  
CoA Status Final

## CERTIFICATE OF ANALYSIS

<b>Customer</b>	MYKU Biosciences LLC	<b>Date Received</b>	8/12/2019
<b>Address</b>	3715 E 40th Ave. Denver CO 80205	<b>Condition</b>	Good
		<b>Temp</b>	Ambient
<b>Sample Name</b>	Spearmint 250_0001	<b>PO #</b>	
<b>Sample Lot #</b>	NA	<b>Remarks</b>	RUSH

Analysis	Specification	Test Result	Test Method	Test Date
Beta-Caryophyllene	N/A	0.18mg / g	GC	as above
alpha-Humulene	N/A	Not Detected	GC	as above
Nerolidol 1	N/A	Not Detected	GC	as above
Nerolidol 2	N/A	Not Detected	GC	as above
Guaiol	N/A	Not Detected	GC	as above
Caryophyllene oxide	N/A	Not Detected	GC	as above
alpha-Bisabolol	N/A	Not Detected	GC	as above
<b>Heavy Metals</b>				
Arsenic (As)	N/A	<0.004 ppm	ICP-MS (STP-021)	08/13/2019
Cadmium (Cd)	N/A	<0.004 ppm	ICP-MS (STP-021)	as above
Mercury (Hg)	N/A	<0.001 ppm	ICP-MS (STP-021)	as above
Lead (Pb)	N/A	0.007 ppm	ICP-MS (STP-021)	as above
<b>Microbiology</b>				
TPC	N/A	<10 cfu/g	AOAC 966.23	08/12/2019
Yeast	N/A	<10 cfu/g	AOAC 2014.05	as above
Mold	N/A	<10 cfu/g	AOAC 2014.05	as above
Coliforms	N/A	<10 cfu/g	AOAC 991.14	as above
E. coli	N/A	Negative / 10g	AOAC 991.14	as above
Salmonella	N/A	Negative / 10g	AOAC 989.13	as above
Staphylococcus aureus	N/A	Negative / 10g	AOAC 2003.07	as above

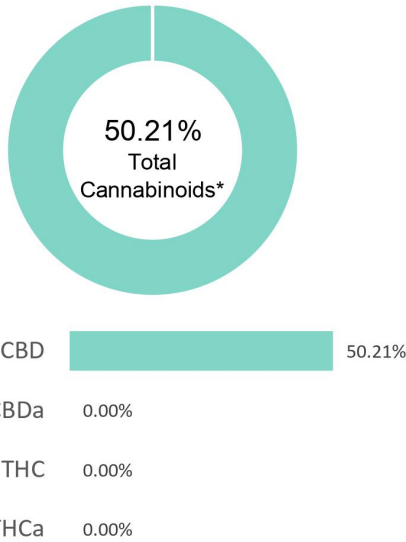
Authorized by

*Hadi Habib* 8/19/19  
Hadi Habib, M.Sc / Technical Deputy

These results apply only to the items tested. This certificate of analysis shall not be reproduced except in full without written consent of iLab.  
Estimation of uncertainty of measurement is available upon request.

**TANGERINE**

<b>Batch ID:</b>	093019_TAN250_0002	<b>Test ID:</b>	2898130.006
<b>Reported:</b>	2-Oct-2019	<b>Method:</b>	TM14
<b>Type:</b>	Concentrate		
<b>Test:</b>	Potency		

**CANNABINOID PROFILE**


Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.17	0.00	0.0
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.09	0.00	0.0
Cannabidiolic acid (CBDA)	0.16	0.00	0.0
Cannabidiol (CBD)	0.09	50.21	502.1
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.09	0.00	0.0
Cannabinolic Acid (CBNA)	0.24	0.00	0.0
Cannabinol (CBN)	0.11	0.00	0.0
Cannabigerolic acid (CBGA)	0.15	0.00	0.0
Cannabigerol (CBG)	0.09	0.00	0.0
Tetrahydrocannabivarinic Acid (THCVA)	0.15	0.00	0.0
Tetrahydrocannabivarin (THCV)	0.08	0.00	0.0
Cannabidivarinic Acid (CBDVA)	0.15	0.00	0.0
Cannabidivarin (CBDV)	0.08	0.00	0.0
Cannabichromenic Acid (CBCA)	0.13	0.00	0.0
Cannabichromene (CBC)	0.16	0.00	0.0
<b>Total Cannabinoids</b>		<b>50.21</b>	<b>502.10</b>
<b>Total Potential THC**</b>		<b>0.00</b>	<b>0.00</b>
<b>Total Potential CBD**</b>		<b>50.21</b>	<b>502.10</b>

 NOTES:  
 N/A

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)

\* Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

\*\* Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step.

Total THC = THC + (THCa \*(0.877)) and Total CBD = CBD + (CBDa \*(0.877))

**FINAL APPROVAL**

 Daniel Weidensaul  
 2-Oct-2019  
 6:02 PM


 David Green  
 2-Oct-2019  
 6:07 PM

PREPARED BY / DATE

APPROVED BY / DATE

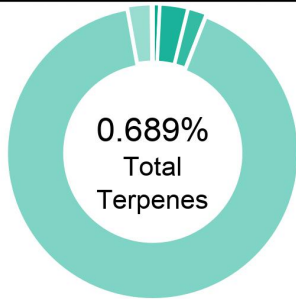
Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. 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. ISO/IEC 17025:2005 Accredited A2LA Certificate Number 4329.02



Certificate #4329.02

**TANGERINE**

<b>Batch ID:</b>	093019_TAN250_0002	<b>Test ID:</b>	4515592.0020
<b>Reported:</b>	5-Oct-2019	<b>Method:</b>	TM10
<b>Type:</b>	Concentrate		
<b>Test:</b>	Terpenes		

**TERPENE PROFILE**



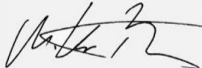
Compound	%(w/w)	mg/g
(-)-alpha-Bisabolol	0.000	0
Camphene	0.000	0
delta-3-Carene	0.000	0
beta-Caryophyllene	0.001	0.01
(-)-Caryophyllene Oxide	0.000	0
p-Cymene	0.000	0
Eucalyptol	0.000	0
Geraniol	0.000	0
alpha-Humulene	0.000	0
(-)-Isopulegol	0.000	0
d-Limonene	0.617	6.17
Linalool	0.018	0.18
beta-Myrcene	0.014	0.14
cis-Nerolidol	0.000	0
trans-Nerolidol	0.000	0
Ocimene	0.000	0
beta-Ocimene	0.000	0
alpha-Pinene	0.005	0.05
(-)-beta-Pinene	0.021	0.21
alpha-Terpinene	0.000	0
gamma-Terpinene	0.012	0.12
Terpinolene	0.001	0.01
<b>Total</b>	<b>0.689%</b>	<b>6.89</b>

**PREDOMINANT TERPENES**

alpha-Pinene	0.005%
(-)-beta-Pinene	0.021%
beta-Myrcene	0.014%
delta-3-Carene	0.000%
alpha-Terpinene	0.000%
d-Limonene	0.617%
Linalool	0.018%
beta-Caryophyllene	0.001%
alpha-Humulene	0.000%
(-)-alpha-Bisabolol	0.000%

 NOTES:  
 0

**FINAL APPROVAL**

 Daniel Weidensaul 5-Oct-2019 2:08 PM	 Mike Branvold 5-Oct-2019 9:08 PM
---	---

PREPARED BY / DATE

APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC. 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. ISO/IEC 17025:2005 Accredited A2LA Certificate Number 4329.02



# CERTIFICATE OF ANALYSIS

prepared for: MYKU BIOSCIENCES LLC  
3715 E. 40TH AVE  
DENVER, CO 80205

## TANGERINE

<b>Batch ID:</b>	093019_TAN250_0002	<b>Test ID:</b>	7506071.010
<b>Reported:</b>	2-Oct-2019	<b>Method:</b>	TM04
<b>Type:</b>	Concentrate		
<b>Test:</b>	Residual Solvents		

## RESIDUAL SOLVENTS

Solvent	Reportable Range (ppm)	Result (ppm)
Propane	100 - 2000	0
Butanes (Isobutane, n-Butane)	100 - 2000	0
Pentane	100 - 2000	0
Ethanol	100 - 2000	0
Acetone	100 - 2000	0
Isopropyl Alcohol	100 - 2000	0
Hexane	6 - 120	0
Benzene	0.2 - 4	0.0
Heptanes	100 - 2000	0
Toluene	18 - 360	0
Xylenes (m,p,o-Xylenes)	43 - 860	0

### NOTES:

Free from visual mold, mildew, and foreign matter.

## FINAL APPROVAL

 Karen Winternheimer 2-Oct-2019 3:53 PM	 David Green 2-Oct-2019 4:02 PM
---	---

PREPARED BY / DATE

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. ISO/IEC 17025:2005 Accredited A2LA Certificate Number 4329.02



Certificate #4329.02



# CERTIFICATE OF ANALYSIS

prepared for: MYKU BIOSCIENCES LLC  
3715 E. 40TH AVE  
DENVER, CO 80205

## TANGERINE

<b>Batch ID:</b>	093019_TAN250_0002	<b>Test ID:</b>	8281568.008
<b>Reported:</b>	5-Oct-2019	<b>Method:</b>	Concentrate - Test Methods: TM05, TM06
<b>Type:</b>	Concentrate		
<b>Test:</b>	Microbial Contaminants		

## MICROBIAL CONTAMINANTS

Contaminant	Result (CFU/g)*
<b>Total Aerobic Count**</b>	None Detected
<b>Total Coliforms**</b>	None Detected
<b>Total Yeast and Molds**</b>	None Detected
<b><i>E. coli</i></b>	None Detected
<b><i>Salmonella</i></b>	None Detected

\* CFU/g = Colony Forming Unit per Gram

\*\* Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form.

Examples:  $10^2 = 100$  CFU  
 $10^3 = 1,000$  CFU  
 $10^4 = 10,000$  CFU  
 $10^5 = 100,000$  CFU

### NOTES:

Free from visual mold, mildew, and foreign matter  
TYM: None Detected  
Total Aerobic: None Detected  
Coliforms: None Detected

## FINAL APPROVAL

  
Robert Belfon  
5-Oct-2019  
4:00 PM

  
Mike Branvold  
5-Oct-2019  
9:12 PM

PREPARED BY / DATE

APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Services, LLC, in the condition it was received. Botanacor Services, 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 Services, LLC.