



# CannaBusiness Laboratories, LLC

2554 Palumbo Dr. Lexington, KY 40509

## Certificate of Analysis

**Customer:**

Bluegrass Pharmaceuticals LLC  
965 Capstone Circle Suite 313  
Miamisburg, OH 45342

Sample ID: **220104049**

Order Number: **CB220104007**

Sample Name: **POTF Tangerine CBD:CBG O**

Collected Date: **1/4/2022**

Received Date: **1/10/2022**

COA Released: **1/21/2022**

External Sample ID: **POTFTO01042022.**

Batch Number: **POTFS01**

Product Type: **Edible**

Sample Type: **Edible**

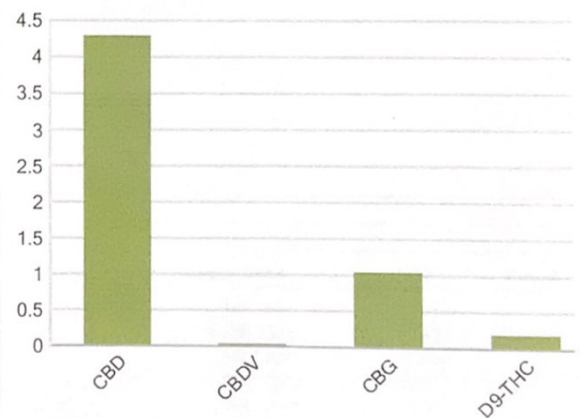
Comments:

### CANNABINOID PROFILE (Product Size = 1 mL)

Analyte	LOQ (%)	% weight	mg/ml	mL/serving
CBC	0.01	ND	ND	ND
CBD	0.01	4.299	39.98	39.98
CBDa	0.01	ND	ND	ND
CBDV	0.01	0.040	0.376	0.38
CBG	0.01	1.042	9.692	9.69
CBGa	0.01	ND	ND	ND
CBN	0.01	ND	ND	ND
d8-THC	0.01	ND	ND	ND
d9-THC	0.01	0.197	1.830	1.83
THCa	0.01	ND	ND	ND
<b>Total Cannabinoids</b>		<b>5.579</b>	<b>51.88</b>	<b>51.88</b>
<b>Total Potential THC</b>		<b>0.197</b>	<b>1.830</b>	<b>1.83</b>
<b>Total Potential CBD</b>		<b>4.299</b>	<b>39.98</b>	<b>39.98</b>
<b>Total Potential CBG</b>		<b>1.042</b>	<b>9.692</b>	<b>9.69</b>



Cannabinoids (% weight)



**Ratio of Total Potential CBD to Total Potential THC 21.82 : 1**

**Ratio of Total Potential CBG to Total Potential THC 5.29 : 1**

\*Total Cannabinoids refers to the sum of all cannabinoids detected.

\*Total Potential CBD = (0.877 x CBDa) + CBD. \*Total Potential THC = (0.877 x THCa) + THC. \*Total Potential CBG = (0.877 x CBGa) + CBG.

\*Total Potential THC/CBD are calculated to take into account the loss of an acid group during decarboxylation.



Authorized Signature

*Jamie Hobgood*  
Laboratory Manager

Jamie Hobgood

01/21/2022 1:55 PM

DATE



**CannaBusiness Laboratories, LLC**  
2554 Palumbo Dr. Lexington, KY 40509



Sample ID: 220104049  
Sample Name: POTF Tangerine CBD:  
Sample Type: Edible

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### Customer

Bluegrass Pharmaceuticals LLC  
965 Capstone Circle Suite 313  
Miamisburg, OH 45342



### Overall Batch Results

Pesticide	Moisture Content
Potency	Water Activity
Mycotoxins	Heavy Metals
Microbial Screen	Residual Solvents
Terpenoids	

Sample Name: POTF Tangerine Oil  
Sample ID: 220104049  
Product Type: Edible  
Sample Type: Edible  
Collected Date: 01/04/2022  
Received Date: 01/10/2022  
Batch Number: POTFTO010420:  
Batch Size: 250  
Sample Size:  
COA released: 01/21/2022 1:5

### Potency (mg/mL)

Date Tested: 01/12/2022 Method: CB-SOP-028  
Instrument:

0.197 % Total THC	4.299 % Total CBD	5.579 % Total Cannabinoids	51.88 mg/mL Total Cannabinoids
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Analyte	Result	Units	LOQ	Result	Units
CBC (Cannabichromene)	ND	%	0.010	ND	mg/mL
CBD (Cannabidiol)	4.299	%	0.010	39.98	mg/mL
CBDa (Cannabidiolic Acid)	ND	%	0.010	ND	mg/mL
CBDV (Cannabidivarin)	0.040	%	0.010	0.376	mg/mL
CBG (Cannabigerol)	1.042	%	0.010	9.692	mg/mL
CBGa (Cannabigerolic Acid)	ND	%	0.010	ND	mg/mL
CBN (Cannabinol)	ND	%	0.010	ND	mg/mL
D8-THC (D8-Tetrahydrocannabinol)	ND	%	0.010	ND	mg/mL
D9-THC (D9-Tetrahydrocannabinol)	0.197	%	0.010	1.830	mg/mL
THCa (Tetrahydrocannabinolic Acid)	ND	%	0.010	ND	mg/mL

### Pesticides

Date Tested: 01/20/2022 Method: CB-SOP-025 Instrument:

Analyte	Result	Units	LOQ	Result	Analyte	Result	Units	LOQ	Result
Acephate	ND	ppm	0.010	ND	Acetamiprid	ND	ppm	0.010	
Aldicarb	ND	ppm	0.010	ND	Azoxystrobin	1.226	ppm	0.010	
Bifenazate	ND	ppm	0.010	ND	Bifenthrin	ND	ppm	0.100	
Boscalid	ND	ppm	0.010	ND	Carbaryl	ND	ppm	0.010	
Carbofuran	ND	ppm	0.010	ND	Chlorantraniliprole	ND	ppm	0.010	
Chlorpyrifos	ND	ppm	0.010	ND	Clofentezine	ND	ppm	0.010	
Coumaphos	ND	ppm	0.010	ND	Daminozide	ND	ppm	0.010	
Diazinon	ND	ppm	0.010	ND	Dichlorvos	ND	ppm	0.010	
Dimethoate	ND	ppm	0.010	ND	Etofenprox	ND	ppm	0.010	
Etoazazole	ND	ppm	0.010	ND	Fenhexamid	ND	ppm	0.010	
Fenoxycarb	ND	ppm	0.010	<LOQ	Fenpyroximate	<LOQ	ppm	0.010	
Fipronil	ND	ppm	0.010	ND	Fonicamid	ND	ppm	0.100	
Fludioxonil	0.938	ppm	0.010	<LOQ	Hexythiazox	<LOQ	ppm	0.010	
Imazalil	1.655	ppm	0.010	ND	Imidacloprid	ND	ppm	0.010	
Malathion	ND	ppm	0.010	ND	Metalaxyl	ND	ppm	0.010	
Methiocarb	ND	ppm	0.010	ND	Methomyl	ND	ppm	0.010	
Myclobutanil	ND	ppm	0.010	ND	Naled	ND	ppm	0.010	
Oxamyl	ND	ppm	0.010	ND	Paclobutrazol	ND	ppm	0.010	

NT = Not tested, ND = Not detected, LOQ = Limit of Quantitation, <LOQ = Detected, >ULOL = Above upper limit of linearity, CFU/g = Colony forming units per 1 gram, TNTC = Too numerous to count



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Sample ID: 220104049  
Sample Name: POTF Tangerine CBD:  
Sample Type: Edible

## Certificate of Analysis

Pesticides							
Date Tested:	01/20/2022	Method:	CB-SOP-025	Instrument:			

Analyte	Result	Units	LOQ	Result	Analyte	Result	Units	LOQ	Result
Phosmet	ND	ppm	0.010		Prallethrin	ND	ppm	0.010	
Propiconazole	1.182	ppm	0.010		Propoxur	ND	ppm	0.010	
Pyrethrin I	ND	ppm	0.010		Pyrethrin II	ND	ppm	0.010	
Pyridaben	ND	ppm	0.010		Spinetoram	ND	ppm	0.010	
Spiromesifen	ND	ppm	0.010		Spirotetramat	ND	ppm	0.010	
Tebuconazole	ND	ppm	0.010		Thiacloprid	ND	ppm	0.010	
Thiamethoxam	ND	ppm	0.010		Trifloxystrobin	ND	ppm	0.010	
Ethoprophos	ND	ppm	0.010		Kresoxym-methyl	ND	ppm	0.010	
Permethrins	ND	ppm	0.010		Piperonyl Butoxide	ND	ppm	0.010	
Spinosyn A	ND	ppm	0.010		Spiroxamine-1	ND	ppm	0.010	
AbamectinB1a	ND	ppm	0.010		Spinosyn D	ND	ppm	0.010	

Mycotoxins							
Date Tested:	01/19/2022	Method:	CB-SOP-025	Instrument:			

Analyte	Result	Units	LOQ	Result	Analyte	Result	Units	LOQ	Result
Ochratoxin A	ND	ppm	0.010		Aflatoxin B1	ND	ppm	0.010	
Aflatoxin G2	ND	ppm	0.010		Aflatoxin B2	ND	ppm	0.010	
Aflatoxin G1	ND	ppm	0.010						

Metals							
Date Tested:	01/21/2022	Method:	CB-SOP-027	Instrument:			

Analyte	Result	Units	LOQ	Result	Analyte	Result	Units	LOQ	Result
Arsenic	<LOQ	ppm	0.200		Cadmium	<LOQ	ppm	0.200	
Lead	<LOQ	ppm	0.200		Mercury	<LOQ	ppm	0.200	

Microbial							
Date Tested:	01/19/2022	Method:		Instrument:			

Analyte	Result	Units	LOQ	Result	Analyte	Result	Units	LOQ	Result
STEC (E. coli)	Negative				Salmonella	Negative			
L. monocytogenes	Negative				Yeast/Mold (qPCR)	0	CFUs		

Residual Solvent							
Date Tested:	01/18/2022	Method:	CB-SOP-032	Instrument:			

Analyte	Result	Units	LOQ	Result	Analyte	Result	Units	LOQ	Result
1-4 Dioxane	<LOQ	ppm	29		2-Butanol	<LOQ	ppm	175	
2-Ethoxyethanol	<LOQ	ppm	24		2-Methylpentane	<LOQ	ppm	87	
3-Methylpentane	<LOQ	ppm	87		2-Propanol	<LOQ	ppm	350	
Cyclohexane	<LOQ	ppm	146		Ether	<LOQ	ppm	350	
Ethylbenzene	<LOQ	ppm	81		Acetone	<LOQ	ppm	350	
Isopropyl Acetate	<LOQ	ppm	175		Methylbutane	<LOQ	ppm	350	
n-Heptane	<LOQ	ppm	350		n-Hexane	<LOQ	ppm	87	
n-Pentane	<LOQ	ppm	350		Tetrahydrofuran	<LOQ	ppm	54	
Acetonitrile	<LOQ	ppm	123		Ethanol	<LOQ	ppm	350	
Ethyl acetate	<LOQ	ppm	175		o-Xylene	<LOQ	ppm	81	
m+p-Xylene	<LOQ	ppm	163		Methanol	<LOQ	ppm	250	
Methylene Chloride	<LOQ	ppm	90		Toluene	<LOQ	ppm	67	

NT = Not tested, ND = Not detected; LOQ = Limit of Quantitation; <LOQ = Detected; >ULOQ = Above upper limit of linearity, CFU/g = Colony forming units per 1 gram, TNTC = Too numerous to count



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Sample Type: Edible

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Laboratory Manager

Jamie Hobgood

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Date Time