



CannaBusiness Laboratories, LLC

2554 Palumbo Dr. Lexington, KY 40509

Partial Certificate of Analysis

Customer:
OP Innovates, LLC
215 E High St
Lexington, KY 40507

Sample ID: 210517002
Order Number: CB210517001
Sample Name: HM Chocolate

Collected Date:
Received Date: 5/17/2021
COA Released: Partial

External Sample ID:
Batch Number: 051221A Lot ID# 505-232
Product Type: Edible
Sample Type: Edible

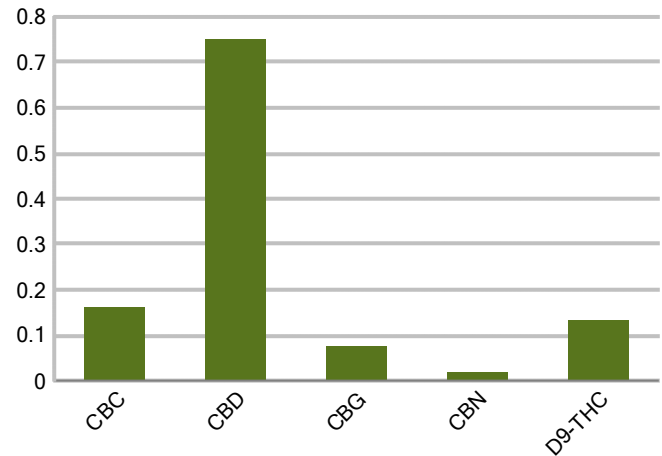
Comments: 165 mg CBD/21.95g

CANNABINOID PROFILE

Analyte	LOQ (%)	% weight	mg/g
CBC	0.01	0.162	1.615
CBD	0.01	0.751	7.507
CBDa	0.01	ND	ND
CBDV	0.01	ND	ND
CBG	0.01	0.076	0.756
CBGa	0.01	ND	ND
CBN	0.01	0.018	0.178
d8-THC	0.01	ND	ND
d9-THC	0.01	0.134	1.336
THCa	0.01	ND	ND
Total Cannabinoids		1.139	11.39
Total Potential THC		0.134	1.336
Total Potential CBD		0.751	7.507
Total Potential CBG		0.076	0.756



Cannabinoids (% weight)



Ratio of Total Potential CBD to Total Potential THC 5.60 : 1

Ratio of Total Potential CBG to Total Potential THC 0.57 : 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

05/19/2021 8:45 AM

DATE

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Sample ID: 210517002
Sample Name: HM Chocolate
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Overall Batch Results	
Pesticide	Moisture Content
Potency	Water Activity
Mycotoxins	Heavy Metals
Microbial Screen	Residual Solvents
Terpenoids	

Sample Name: HM Chocolate
Sample ID: 210517002
Product Type: Edible
Sample Type: Edible
Collected Date:
Received Date: 05/17/2021
Batch Number:
Batch Size:
Sample Size:
COA released: Partial

Potency (mg/g)			
Date Tested: 05/18/2021		Method: CB-SOP-028	
Instrument:			

0.134 % Total THC	0.751 % Total CBD	1.139 % Total Cannabinoids	11.39 mg/g Total Cannabinoids
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Analyte	Result	Units	LOQ	Result	Units
CBC (Cannabichromene)	0.162	%	0.010	1.615	mg/g
CBD (Cannabidiol)	0.751	%	0.010	7.507	mg/g
CBDa (Cannabidiolic Acid)	ND	%	0.010	ND	mg/g
CBDV (Cannabidivarin)	ND	%	0.010	ND	mg/g
CBG (Cannabigerol)	0.076	%	0.010	0.756	mg/g
CBGa (Cannabigerolic Acid)	ND	%	0.010	ND	mg/g
CBN (Cannabinol)	0.018	%	0.010	0.178	mg/g
D8-THC (D8-Tetrahydrocannabinol)	ND	%	0.010	ND	mg/g
D9-THC (D9-Tetrahydrocannabinol)	0.134	%	0.010	1.336	mg/g
THCa (Tetrahydrocannabinolic Acid)	ND	%	0.010	ND	mg/g

Foreign Material	Result	Note
Date Tested: 05/17/2021	Absence	

Water Activity	Result	Units	LOQ	Result
Date Tested: 05/18/2021	0.257	Aw	0.030	

Terpenoids					
Date Tested:		Method: CB-SOP-026			
Instrument:					

Analyte	Result	Unit	LOQ	Result	Unit
alpha-Bisabolol	Pending	mg/g	0.100	Pending	%
alpha-humulene	Pending	mg/g	0.100	Pending	%
alpha-pinene	Pending	mg/g	0.100	Pending	%
alpha-terpinene	Pending	mg/g	0.100	Pending	%
beta-caryophyllene	Pending	mg/g	0.100	Pending	%
Beta-myrcene	Pending	mg/g	0.100	Pending	%
Beta-pinene	Pending	mg/g	0.100	Pending	%
cis-Nerolidol	Pending	mg/g	0.100	Pending	%
Camphene	Pending	mg/g	0.100	Pending	%
d-Limonene	Pending	mg/g	0.100	Pending	%
delta-3-Carene	Pending	mg/g	0.100	Pending	%
Eucalyptol	Pending	mg/g	0.100	Pending	%
gamma-Terpinene	Pending	mg/g	0.100	Pending	%
Geraniol	Pending	mg/g	0.100	Pending	%
Guaiol	Pending	mg/g	0.100	Pending	%
Isopulegol	Pending	mg/g	0.100	Pending	%
Linalool	Pending	mg/g	0.100	Pending	%
Ocimene (mixture of isomers)	Pending	mg/g	0.100	Pending	%
p-Isopropyltoluene (p-Cymene)	Pending	mg/g	0.100	Pending	%
trans-beta-Ocimene	Pending	mg/g	0.100	Pending	%
trans-Nerolidol	Pending	mg/g	0.100	Pending	%
Terpinolene	Pending	mg/g	0.100	Pending	%

Pesticides			
Date Tested:	Method: CB-SOP-025	Instrument:	

Analyte	Result	Units	LOQ	Result	Analyte	Result	Units	LOQ	Result
Acephate	Pending	ppm	0.010	Pending	Acetamiprid	Pending	ppm	0.010	Pending
Aldicarb	Pending	ppm	0.010	Pending	Azoxystrobin	Pending	ppm	0.010	Pending
Bifenazate	Pending	ppm	0.010	Pending	Bifenthrin	Pending	ppm	0.010	Pending
Boscalid	Pending	ppm	0.010	Pending	Carbaryl	Pending	ppm	0.010	Pending
Carbofuran	Pending	ppm	0.010	Pending	Chlorantraniliprole	Pending	ppm	0.010	Pending
Chlorpyrifos	Pending	ppm	0.010	Pending	Clofentezine	Pending	ppm	0.010	Pending
Coumaphos	Pending	ppm	0.010	Pending	Daminozide	Pending	ppm	0.010	Pending
Diazinon	Pending	ppm	0.010	Pending	Dichlorvos	Pending	ppm	0.010	Pending
Dimethoate	Pending	ppm	0.010	Pending	Etofenprox	Pending	ppm	0.010	Pending
Etoxazole	Pending	ppm	0.010	Pending	Fenhexamid	Pending	ppm	0.010	Pending
Fenoxycarb	Pending	ppm	0.010	Pending	Fenpyroximate	Pending	ppm	0.010	Pending

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

CannaBusiness Laboratories
License # P-0059: (859)-514- 6999 <https://www.cannabusinesslabs.us>

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Sample ID: 210517002
Sample Name: HM Chocolate
Sample Type: Edible

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Pesticides									
Date Tested:		Method: CB-SOP-025			Instrument:				
Analyte	Result	Units	LOQ	Result	Analyte	Result	Units	LOQ	Result
Fipronil	Pending	ppm	0.010	Pending	Fonicamid	Pending	ppm	0.010	Pending
Fludioxonil	Pending	ppm	0.010	Pending	Hexythiazox	Pending	ppm	0.010	Pending
Imazalil	Pending	ppm	0.010	Pending	Imidacloprid	Pending	ppm	0.010	Pending
Malathion	Pending	ppm	0.010	Pending	Metalaxyl	Pending	ppm	0.010	Pending
Methiocarb	Pending	ppm	0.010	Pending	Methomyl	Pending	ppm	0.010	Pending
Myclobutanil	Pending	ppm	0.010	Pending	Naled	Pending	ppm	0.010	Pending
Oxamyl	Pending	ppm	0.010	Pending	Pacllobutrazol	Pending	ppm	0.010	Pending
Phosmet	Pending	ppm	0.010	Pending	Prallethrin	Pending	ppm	0.010	Pending
Propiconazole	Pending	ppm	0.010	Pending	Propoxur	Pending	ppm	0.010	Pending
Pyrethrin I	Pending	ppm	0.010	Pending	Pyrethrin II	Pending	ppm	0.010	Pending
Pyridaben	Pending	ppm	0.010	Pending	Spinetoram	Pending	ppm	0.010	Pending
Spiromesifen	Pending	ppm	0.010	Pending	Spirotetramat	Pending	ppm	0.010	Pending
Tebuconazole	Pending	ppm	0.010	Pending	Thiacloprid	Pending	ppm	0.010	Pending
Thiamethoxam	Pending	ppm	0.010	Pending	Trifloxystrobin	Pending	ppm	0.010	Pending
Ethoprophos	Pending	ppm	0.010	Pending	Kresoxym-methyl	Pending	ppm	0.010	Pending
Permethrins	Pending	ppm	0.010	Pending	Piperonyl Butoxide	Pending	ppm	0.010	Pending
Spinosyn A	Pending	ppm	0.010	Pending	Spiroxamine-1	Pending	ppm	0.010	Pending
AbamectinB1a	Pending	ppm	0.010	Pending	Spinosyn D	Pending	ppm	0.010	Pending

Moisture Content									
Date Tested: 05/18/2021		Method: CB-SOP-020			Instrument:				
Analyte	Result	Units	LOQ	Result	Analyte	Result	Units	LOQ	Result
Percent Moisture	4	%	0.010	Pass					

Mycotoxins									
Date Tested:		Method: CB-SOP-025			Instrument:				
Analyte	Result	Units	LOQ	Result	Analyte	Result	Units	LOQ	Result
Ochratoxin A	Pending	ppm	0.010	Pending	Aflatoxin B1	Pending	ppm	0.010	Pending
Aflatoxin G2	Pending	ppm	0.010	Pending	Aflatoxin B2	Pending	ppm	0.010	Pending
Aflatoxin G1	Pending	ppm	0.010	Pending					

Metals									
Date Tested:		Method: CB-SOP-027			Instrument:				
Analyte	Result	Units	LOQ	Result	Analyte	Result	Units	LOQ	Result
Arsenic	Pending	ppm	0.500	Pending	Cadmium	Pending	ppm	0.500	Pending
Lead	Pending	ppm	0.500	Pending	Mercury	Pending	ppm	3.000	Pending

Microbial									
Date Tested:		Method:			Instrument:				
Analyte	Result	Units	LOQ	Result	Analyte	Result	Units	LOQ	Result
STEC (E. coli)	Pending			Pending	Salmonella	Pending			Pending
L. monocytogenes	Pending			Pending	Yeast/Mold (qPCR)	Pending	CFUs		Pending

Residual Solvent									
Date Tested:		Method: CB-SOP-032			Instrument:				
Analyte	Result	Units	LOQ	Result	Analyte	Result	Units	LOQ	Result
1-4 Dioxane	Pending	ppm	29	Pending	2-Butanol	Pending	ppm	175	Pending
2-Ethoxyethanol	Pending	ppm	24	Pending	2-Methylpentane	Pending	ppm	87	Pending
3-Methylpentane	Pending	ppm	87	Pending	2-Propanol	Pending	ppm	350	Pending
Cyclohexane	Pending	ppm	146	Pending	Ether	Pending	ppm	350	Pending

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Sample Name: HM Chocolate
Sample Type: Edible

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Residual Solvent		
Date Tested:	Method: CB-SOP-032	Instrument:

Analyte	Result	Units	LOQ	Result	Analyte	Result	Units	LOQ	Result
Ethylbenzene	Pending	ppm	81	Pending	Acetone	Pending	ppm	350	Pending
Isopropyl Acetate	Pending	ppm	175	Pending	Methylbutane	Pending	ppm	350	Pending
n-Heptane	Pending	ppm	350	Pending	n-Hexane	Pending	ppm	87	Pending
n-Pentane	Pending	ppm	350	Pending	Tetrahydrofuran	Pending	ppm	54	Pending
Acetonitrile	Pending	ppm	123	Pending	Ethanol	Pending	ppm	350	Pending
Ethyl acetate	Pending	ppm	175	Pending	o-Xylene	Pending	ppm	81	Pending
m+p-Xylene	Pending	ppm	163	Pending	Methanol	Pending	ppm	250	Pending
Methylene Chloride	Pending	ppm	90	Pending	Toluene	Pending	ppm	67	Pending



Authorized Signature

05/19/2021 8:45 AM

Laboratory Manager

Date Time

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