





9730 PATUXENT WOODS DRIVE
 SUITE 300
 COLUMBIA, MD 21046

CERTIFICATE OF ANALYSIS
 MMCC LICENSE #: L-19-00001

SAMPLE INFORMATION



Sample Information	
Sample ID	0000421
Accession Date	2020-01-30
Customer Account	Cativa CBD
Product Name	Balance Gum 8pk
Sample Type	Edible
Carrier Type	Other - Put type in notes
Compliance Sample (Yes/No)	False
Lot/Batch Number	MM1016j
Sample Weight/Volume	16.21
Density	1.000
Moisture Correction (%)	0.00%
Water Activity	0.514




0.000% D9-THC %	0.000% Total THC %	0.484% Total CBD %	0.000% Total Terpene %	4.899 mg/g Total Cannabinoids	79.451 mg Total Cannabinoids per Sample
--------------------	-----------------------	-----------------------	---------------------------	----------------------------------	--

CANNABINOID ANALYSIS

Cannabinoids Analysis					
Component	LOD	LOQ	Amount	Unit of Measurement	Amount (%)
CBD	0.005	0.01	4.843	mg/g	0.484%
CBDV	0.005	0.01	0.013	mg/g	0.001%
CBDVA	0.005	0.01	0.009	mg/g	0.000%
CBC	0.005	0.01	ND	mg/g	ND
CBDA	0.005	0.01	ND	mg/g	ND
CBGA	0.005	0.01	ND	mg/g	ND
CBG	0.005	0.01	ND	mg/g	ND
CBN	0.005	0.01	0.033	mg/g	0.003%
D8-THC	0.005	0.01	ND	mg/g	ND
D9-THC	0.005	0.01	ND	mg/g	ND
THCA	0.005	0.01	ND	mg/g	ND
THCV	0.005	0.01	ND	mg/g	ND

Breakdown of Detected Cannabinoids



Cannabinoid	Amount (%)
CBD	0.484%
CBN	0.003%
CBDV	0.001%
CBDVA	0.000%
CBC	ND
CBDA	ND
CBGA	ND
CBG	ND
D8-THC	ND
D9-THC	ND
THCA	ND
THCV	ND



9730 PATUXENT WOODS DRIVE
SUITE 300
COLUMBIA, MD 21046

CERTIFICATE OF ANALYSIS
MMCC LICENSE #: L-19-00001

TERPENES

Terpenes Profile						Terpenes Analysis	
Component	LOD	LOQ	Amount ^	Unit of Measurement	Amount (%)		
b-Myrcene	0.0012	0.01	ND	mg/g	ND	Eucalyptol	0.008
Camphene	0.0012	0.01	ND	mg/g	ND	Limonene	0.006
Caryophyllene ...	0.0012	0.01	ND	mg/g	ND	Caryophyllene	
b-Pinene	0.0012	0.01	ND	mg/g	ND	Cis-Nerolidol	
p-Cymene	0.0012	0.01	ND	mg/g	ND	Linalool	
Geraniol	0.0012	0.01	ND	mg/g	ND	3-Carene	
Caryophyllene	0.0012	0.01	ND	mg/g	ND	Ocimene	
Cis-Nerolidol	0.0012	0.01	ND	mg/g	ND	a-Bisabolol	
Linalool	0.0012	0.01	ND	mg/g	ND	Guaiol	
3-Carene	0.0012	0.01	ND	mg/g	ND	Terpinolene	
Ocimene	0.0012	0.01	ND	mg/g	ND	a-Humulene	
a-Bisabolol	0.0012	0.01	ND	mg/g	ND	Isopulegol	
Guaiol	0.0012	0.01	ND	mg/g	ND	Trans-Nerolidol	
Terpinolene	0.0012	0.01	ND	mg/g	ND	a-Terpinene	
a-Humulene	0.0012	0.01	ND	mg/g	ND	a-Pinene	
Isopulegol	0.0012	0.01	ND	mg/g	ND	y-Terpinene	
Trans-Nerolidol	0.0012	0.01	ND	mg/g	ND	b-Myrcene	
a-Terpinene	0.0012	0.01	ND	mg/g	ND	Camphene	
a-Pinene	0.0012	0.01	ND	mg/g	ND	Caryophyllene Oxide	
y-Terpinene	0.0012	0.01	ND	mg/g	ND	b-Pinene	
Limonene	0.0012	0.01	0.006	mg/g	0.000%	p-Cymene	
Eucalyptol	0.0012	0.01	0.008	mg/g	0.000%	Geraniol	

HEAVY METALS

RESIDUAL SOLVENTS

Heavy Metals Profile				Solvents Profile			
Component	LOD	LOQ	Amount (ppb) ^	Component ^	LOD	LOQ	Amount (ppm)
Barium	1000	3000	ND	Benzene	0.05	0.7	0.00
Mercury	10	20	ND	Butane	1000	2000	0.00
Lead	10	20	ND	Ethanol	10	50	28.41
Chromium	10	20	ND	Heptane	10	50	0.00
Arsenic	10	20	ND	Hexane	5	10	0.00
Selenium	10	20	ND	Propane	1000	2000	0.00
Silver	10	20	ND	Toluene	10	50	39.97
Cadmium	10	20	ND	Xylenes	10	20	0.00

MICROBIALS

MYCOTOXINS

Microbials Profile			Mycotoxins Profile			
Impurity ^	Action Limit (CFU/g)	Pass / Fail	Component ^	LOD	LOQ	Amount (ppb)
Aerobic	> 100,000	Pass	Aflatoxin B1	8	20	ND
Aspergillus	> 10,000	Pass	Aflatoxin B2	8	20	ND
E-Coli	> 100	Pass	Aflatoxin G1	8	20	ND
Salmonella	> 0	Pass	Aflatoxin G2	8	20	ND
			Ochratoxin A	8	20	ND

CHEMICAL RESIDUES

Chemical Residues Profile					Chemical Residues Profile				
Component	LOD	LOQ	Amount (ppb)		Component	LOD	LOQ	Amount (ppb)	
Abamectin	8	20		ND	Hexythiazol	8	20		ND
Acetamiprid	8	20		ND	Imazalil	8	20		ND
Aldicarb	8	20		ND	Imidacloprid	8	20		ND
Ancymidol	8	20		ND	Kresoxim-Methyl	20	50		ND
Azoxystrobin	8	20		ND	Malathion	10	30		ND
Bifenazate	8	20		ND	Metalaxyl	8	20		ND
Bifenthrin	8	20		ND	Methiocarb	8	20		ND
Boscalid	20	50		ND	Methomyl	8	20		ND
Carbaryl	8	20		ND	Myclobutanil	8	20		ND
Carbofuran	8	20		ND	Naled	8	20		ND
Chlorantraniliprole	20	50		ND	Oxamyl	5	10		ND
Chlorpyrifos	8	20		ND	Palcobutrazole	8	20		ND
Clofentezine	8	20		ND	Permethrin	8	20		ND
Cyfluthrin	20	50		ND	Phosmet	8	20		ND
Daminozide	10	30		ND	Piperonyl Butoxide	8	20		ND
Diazinon	8	20		ND	Propiconazole	8	20		ND
Dichlorvos	8	20		ND	Pyrethrin	8	20		ND
Dimethoate	8	20		ND	Spinosad	8	20		ND
Ethephon	80	200		ND	Spiromesifen	8	20		ND
Etoxazole	8	20		ND	Spirotetramat	8	20		ND
Fenpyroximate	8	20		ND	Thiachloprid	8	20		ND
Fipronil	10	30		ND	Thiamethoxam	8	20		ND
Fludioxinil	20	80		ND	Trifloxystrobin	6	10		ND
Flonicamide	8	20		ND					
Flurprimidol	8	20		ND					

SIGNATURE OF CONFIRMATION



Conor Jenkins
Laboratory Manager

Disclaimer

Testing results are based on the sample submitted to Think20 Labs LLC in the picture and description above. Think20 Labs LLC affirms that all analytical testing was performed consistent with industry standards and in accordance with validated methods designed and verified by Think20 Labs LLC. All testing results were produced in compliance with applicable state and federal laws. This report may not be reproduced, except in full, without the written approval of Think20 Labs LLC.

Calculations

$$\text{Total CBD} = (\text{CBDA} \times 0.877) + \text{CBD}$$

$$\text{Total THC} = (\text{THCA} \times 0.877) + \text{D9-THC}$$

$$\text{D9-THC \%} = (\text{Component Amount in mg} / 1000)$$

$$\text{PPM to \%} = ((\text{PPM} / 1000) / 1000) \times 100$$

$$\text{Moisture Content Adjustment} = (\text{Component Amount} / (1000 \text{ mg} - (1000 * \text{Moisture Correction \%}))) * 1000$$

LOQ = Limit of Quantitation

LOD = Limit of Detection

ND = Not Detected

PPB - Parts per Billion

PPM - Parts per Million