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# CERTIFICATE OF ANALYSIS

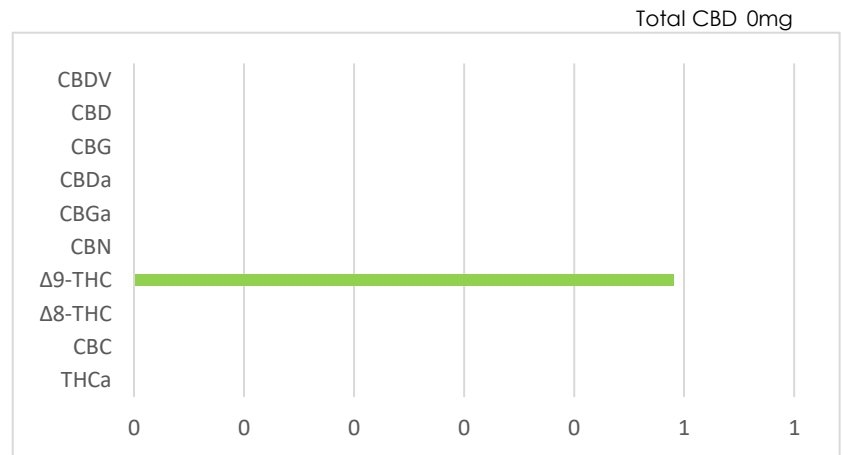
Project **MEDICAL CANNABIS**  
 Sample ID **21D07EDB003**  
 Customer Name **TOP FLIGHT DISTRIBUTION**  
 Customer License **PAAA-NYZT-6BFH**  
 Sample Matrix **EDIBLE**  
 Strain/Description **ZEN FRUIT PUNCH SATIVA GUMMY 50MG**  
 Customer Batch ID **BAT0121127 LOT127**  
 Date Sampled **4/7/2021**  
 Sampling Method **CUSTOMER SUPPLIED**  
 Quantity Received (g) **26.94** (3 GUMMIES - 8.98g EACH)  
 Date Completed **4/12/2021**



Total % Δ9-THC	Total % CBD
<b>0.49</b>	<b>&lt;LOQ</b>

Net Wt of One Gummy (g)	Total THC in one Gummy (mg)
<b>8.98</b>	<b>44.00</b>

Cannabinoids	mg/g	%
CBDV	<b>&lt;LOQ</b>	<b>&lt;LOQ</b>
CBD	<b>&lt;LOQ</b>	<b>&lt;LOQ</b>
CBG	<b>&lt;LOQ</b>	<b>&lt;LOQ</b>
CBDa	<b>&lt;LOQ</b>	<b>&lt;LOQ</b>
CBGa	<b>&lt;LOQ</b>	<b>&lt;LOQ</b>
CBN	<b>&lt;LOQ</b>	<b>&lt;LOQ</b>
Δ9-THC	<b>4.90</b>	<b>0.49</b>
Δ8-THC	<b>&lt;LOQ</b>	<b>&lt;LOQ</b>
CBC	<b>&lt;LOQ</b>	<b>&lt;LOQ</b>
THCa	<b>&lt;LOQ</b>	<b>&lt;LOQ</b>
<b>Total Cannabinoids</b>	<b>4.90</b>	<b>0.49</b>



Total THC%=(0.877xTHCa%) + Δ9-THC%

Total CBD%=(0.877xCBDa%) + CBD%

Total THC prod=NetWt(g) x mgTHC

Terpenes	mg/g	%
alpha-Pinene	<b>ND</b>	<b>ND</b>
Camphene	<b>ND</b>	<b>ND</b>
beta-Myrcene	<b>ND</b>	<b>ND</b>
beta-Pinene	<b>ND</b>	<b>ND</b>
delta-3-Carene	<b>ND</b>	<b>ND</b>
alpha-Terpinene	<b>ND</b>	<b>ND</b>
Ocimene	<b>ND</b>	<b>ND</b>
D-Limonene	<b>ND</b>	<b>ND</b>
p-Cymene	<b>ND</b>	<b>ND</b>
Eucalyptol	<b>ND</b>	<b>ND</b>

Terpenes	mg/g	%
gamma-Terpinene	<b>ND</b>	<b>ND</b>
Terpinolene	<b>ND</b>	<b>ND</b>
Linalool	<b>ND</b>	<b>ND</b>
Isopulegol	<b>ND</b>	<b>ND</b>
beta-Caryophyllene	<b>ND</b>	<b>ND</b>
alpha-Humulene	<b>ND</b>	<b>ND</b>
Nerolidol	<b>ND</b>	<b>ND</b>
Guaiol	<b>ND</b>	<b>ND</b>
alpha-Bisabolol	<b>ND</b>	<b>ND</b>
<b>Total Terpenes</b>	<b>ND</b>	<b>ND</b>

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<b>Pesticides</b>			<b>Residual Solvents</b>		
	ppm	Pass/Fail		ppm	Pass/Fail
Imidacloprid [0.4ppm]	ND	PASS	Acetone [1000ppm]	<LOQ	PASS
Imazalil [0.2ppm]	ND	PASS	Benzene [2ppm]	ND	PASS
Myclobutanil [0.2ppm]	ND	PASS	Butanes [1000ppm]	ND	PASS
Malathion [0.2ppm]	ND	PASS	Heptanes [1000ppm]	ND	PASS
Azoxystrobin [0.2ppm]	ND	PASS	Hexane [60ppm]	ND	PASS
Bifenazate [0.2ppm]	ND	PASS	Isopropyl Alcohol [1000ppm]	ND	PASS
Spirotetramat [0.2ppm]	ND	PASS	Pentane [1000ppm]	<LOQ	PASS
Tebuconazole [0.4ppm]	ND	PASS	Propane [1000ppm]	ND	PASS
Spinosad [0.2ppm]	ND	PASS	Toluene [180ppm]	ND	PASS
Abamectin [0.5ppm]	ND	PASS	Xylenes [430ppm]	ND	PASS
Spiromesifen [0.2ppm]	ND	PASS	Methanol [600ppm]	ND	PASS
Etoxazole [0.2ppm]	ND	PASS	Ethyl Acetate [1000ppm]	30	PASS
Permethrin [0.2ppm]	ND	PASS	Ethanol [5000ppm]	ND	PASS

<b>Heavy Metals</b>			<b>Microbiology</b>		
	ppm	Pass/Fail		CFU/g	Pass/Fail
Arsenic [0.2ppm]	<LOQ	PASS	STEC E. Coli [1cfu/g]	0	PASS
Cadmium [0.2ppm]	<LOQ	PASS	Salmonella [1cfu/g]	0	PASS
Lead [0.5ppm]	<LOQ	PASS	Aspergillus [1cfu/g]	0	PASS
Mercury [0.1ppm]	<LOQ	PASS	Molds and Yeast [10,000cfu/g]	0	PASS

<b>Mycotoxins</b>			<b>Microscopic Inspection</b>		
	ppb	Pass/Fail		Amount	Pass/Fail
Total Aflatoxins	ND	PASS	Foreign Matter	ND	PASS
Total Ochratoxins	ND	PASS	Contaminants	ND	PASS
Total [20ppb]	ND	PASS	Other	ND	PASS

<b>Water Activity [0.65aW]</b>		
	Amount	Pass/Fail
	NT	NT
<b>Moisture Content</b>		
	NT	NT

Sample Notes/Deviations from Methods:

Method References:

Analysis	Method	Instrument	RL	Test Date	Analyst
Cannabinoids	SOP-CANFC	Agilent 1260 HPLC-UV	1mg/g	4/7/2021	MC

Terpenes	SOP-TER	Agilent Intuvo HS-GC	0.1mg/g	4/13/2021	MC
Water Activity	SOP-WA2019	Rotronics WA Meter	N/A	NT	NT
Residual Solvents	SOP-RES	Agilent Intuvo HS-GC	Benzene 1 ppm; Others 30 ppm	4/11/2021	MC
STEC E. Coli/Salmonella	Medicinal Genomics qPCR Protocol	Agilent AriaMx QPCR	1 CFU/g	4/12/2021	CM
Aspergillus	Medicinal Genomics qPCR Protocol	Agilent AriaMx QPCR	1 CFU/g	4/12/2021	CM
Molds and Yeast	Medicinal Genomics qPCR Protocol	Agilent AriaMx QPCR	1 CFU/g	4/12/2021	CM
Heavy Metals	EPA 6010D/7471B	AGILENT ICP-OES	As, Cd, Pb 25 ppb; Hg 10 ppb	4/15/2021	HG
Pesticides	CBL Method 2	AGILENT LC-MS-MS	0.05 ppm	4/15/2021	HG
Mycotoxins	SOP-CBMX	LC-MS-MS	2.5ppb	4/15/2021	HG
Microscopic Inspection	SOP-MIC	Stereo Microscope	N/A	NT	NT

\*Any sample not collected by 405 Analytical LLC trained samplers is "TESTED as received."

\*Recoveries for all analyte standards: 90%-110% | Duplicate Recoveries <30%RPD | Blanks <BDL for all analytes.

\*This data is provided as a service and makes no claims of efficacy or safety of product.

\*405 Analytical LLC reserves the right to sub-contract work on an "as needed" basis to an accredited lab.

\*This Certificate of Analysis shall only be reproduced in its full form and shall not be modified way.

RL - Reporting Limit

LOQ - Limit of Quantitation

ND - Not detected above reporting limit

NT - Not tested

[ ] - Bracketed values are legal not-to-exceed limits

RPD - Relative Percent Difference

BDL - Below Detection Limit

*Dr. Mark Clemenson*  
Laboratory Director

*Krystal L Tilson*  
Quality Assurance Manager/Chemist

OBND # 61165  
OMMA# LAAA-NYWH-5XOE

405 ANALYTICAL LLC

Sample ID:21D07EDB003