



# Certificate of Analysis

Powered by Confident Cannabis  
2 of 6

## Healthy Hemp Strategies

AZ 85210  
thomas.calise@healthyhempstrategies.com  
(925) 989-1135  
Lic. #

Sample: 1811C4L0140.11634

Strain: 10mg Gum Drop  
Lot#: ; Batch#: ; Batch Size: - grams

Sample Received: 12/04/2018; Report Created: 12/06/2018; Expires: 12/06/2019

10mg Gum Drop  
Ingestible, Soft Chew, CO2



<LOQ

Total THC

9.098 mg/unit

Total CBD

0

THC

:

1

CBD

## Cannabinoids

Pass

Foreign Matter

Analyte	LOQ	Mass	Mass	Std. Dev.
	mg/unit	mg/unit	%	
THCa	0.627	ND	ND	
Δ9-THC	0.627	ND	ND	
CBD	0.627	9.098	0.1450	
CBDa	0.627	ND	ND	
CBC	0.627	ND	ND	
CBG	0.627	ND	ND	
CBN	0.627	ND	ND	
THCV	0.627	ND	ND	
Δ8-THC	0.627	ND	ND	
CBDV	0.627	ND	ND	
Total		9.098	0.1450	

1 Unit = Each, 6.2746g


Total THC = THCa \* 0.877 + Δ9-THC

Total CBD = CBDa \* 0.877 + CBD

LOQ = Limit of Quantitation; NR = Not Reported; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory.



1930 S. Alma School Rd.  
Mesa, AZ  
(480) 219-6460  
<http://www.c4lab.com>  
Lic#

  
Aaron Hicks  
Director of Laboratory Operations



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(866) 506-5866  
[www.confidentcannabis.com](http://www.confidentcannabis.com)



This product has been tested by C4 Laboratories LLC using valid testing methodologies and a quality system as required by state law. Values reported relate only to the product tested. C4 Laboratories LLC makes no claims as to the efficacy, safety or other risks associated with any detected or non-detected levels of any compounds reported herein. This Certificate shall not be reproduced except in full, without the written approval of C4 Laboratories LLC.



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**10mg Gum Drop**  
Ingestible, Soft Chew, CO2



## Residual Solvents

Analyte	Mass	Status
	PPM	
Acetone	9	Pass
Acetonitrile	ND	Pass
Benzene	ND	Pass
Carbon-Tetrachloride	ND	Pass
Chloroform	ND	Pass
Ethanol	29	Pass
Heptane	ND	Pass
Hexanes	ND	Pass
Isobutane	ND	Pass
Isopropanol	ND	Pass
Methanol	ND	Pass
n-Butane	ND	Pass
o-Xylene	ND	Pass
Pentane	ND	Pass
Tetrahydrofuran	ND	Pass
Toluene	ND	Pass
Xylenes	ND	Pass




**Pass**

Foreign Matter



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## Pesticides

Complete

Analyte	Mass	Status
	PPM	
Azoxystrobin	NR	NT
Beta-Cyfluthrin	NR	NT
Daminozide	NR	NT
Myclobutanil	NR	NT
Paclobutrazol	NR	NT
Quinoxifen	NR	NT

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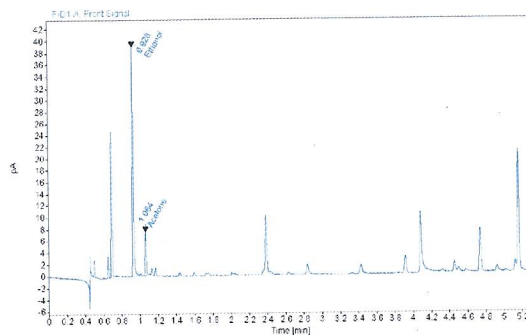


C4 Laboratories, LLC  
1930 S. Alma School Rd  
Suite D206  
Mesa, AZ 85210  
www.c4lab.com

"Patient protection through true science"

**C4 Laboratories,  
LLC**

Sample name:	1811C4L0140.11634_10mg_Gum_Drop	Sample type:	Sample
Instrument:	7890B	Location:	37
Injection date:	12/5/2018 4:08:25 PM	Injection:	1 of 1
Acq. method:	SolventsMaster.M	Injection volume:	1000.000
Analysis method:	SolventsMaster.M	Acq. operator:	SYSTEM
Last changed:	12/5/2018 5:13:13 PM		



Name	ppm
t-butane	0
n-butane	0
Methanol	0
Pentane	0
Ethanol	29
Acetone	9
Isopropanol	0
Acetonitrile	0
Hexane	0
THF	0
Chloroform	0
CTOL	0
Benzene	0
Heptane	0
Toluene	0
mip-Xylene	0
O-Xylene	0


Sol Report 18.rdl [Rev. 57]

Printed: 12/5/2018 5:13:20 PM

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12/6/2018 10:04:42 AM Page 1 / 1



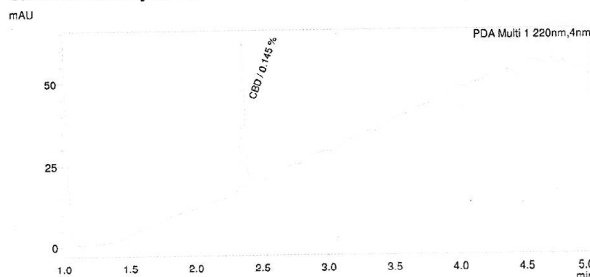
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## C4 Laboratories, LLC

Sample Name : 1811C4L0140.11634\_10mg\_Gum\_Drop\_R1  
Sample ID : Healthy Hemp Strategies  
Data Filename : 1811C4L0140.11634\_10mg\_Gum\_Drop\_R1\_001.lcd  
Method Filename : 10 cannabinoids 31 Oct 2018.lcm  
Batch Filename : Batch v2.lcb  
Vial # : 1-1  
Injection Volume : 10 uL  
Date Acquired : 12/6/2018 9:47:39 AM  
Date Processed : 12/6/2018 9:54:40 AM  
Sample Type : Medible  
Acquired by : Aaron J. Hicks  
Processed by : Aaron J. Hicks

### Cannabinoids by HPLC



### Cannabinoids

PDA	Ret. Time	Area	Conc.	Name
				-- CBD-V
				-- CBD-A
				-- CBG
	2.360	95816	0.145%	-- CBD
				-- THC-V
				-- CBN
				-- THC
				-- delta-THC
				-- CBC
				-- THC-A

C:\LabSolutions\Data\6 Dec 2018\1811C4L0140.11634\_10mg\_Gum\_Drop\_R1\_001.lcd



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Dear Valued Colleague,

Thank you for selecting C4 Laboratories. Our goal at C4 is to provide reliable data that is interpreted within the appropriate physiological context, to ultimately empower patients to use cannabis medicine more effectively. The data within this report are the result of various analytical methods that have been developed by the team of scientists at C4 Laboratories. For the characterization and quantification of 21 terpene compounds and residual solvents we use Head-Space Gas Chromatography with Flame Ionization Detection (HS-GC-FID). Additionally, Ultra High Performance Liquid Chromatography (UHPLC) is used for the characterization and quantification of the 10 major phytocannabinoids found in cannabis. All data are collected in concert with proper quality assurance/quality control measures (QA/QC), including the use of intermittent analytical blanks, sample spikes, and commercial standards.

As an additional measure of quality control, we provide a historical reference (when available) to analytical results from an equivalent strain of cannabis/cannabis product to draw comparison. We understand that within an individual strain that results may vary as a result of variances in sample homogeneity, analytical methodology, crop conditions, genetic drift, and/or gene flow during hybridization. However, such a comparison can provide valuable insight into sample integrity and/or the phenotypic identity of the analyzed sample.


Additionally, we have interpreted all data within the physiological context provided to us by the growing body of peer-reviewed scientific research studies. Key factors to consider when determining how to most appropriately use a particular strain of cannabis include, but are not limited to, an evaluation of the possible cannabinoid/terpene synergies and an analysis of the various cannabinoid ratios, particular the CBD-A/THC-A, CBD/THC and CBG/CBN ratios. Using the scientific interpretations provided within this report, consult a physician prior to adopting a medical cannabis regiment for the treatment of specific medical conditions.

It is important to note that when analyzing cannabis there can exist natural variability of cannabinoid and terpene concentrations within individual plants. Cannabinoid concentrations in cannabis flower have been found to increase distally with respect to the root mass. As such, the analysis of multiple samples from any plant of interest is recommended.

Thank you again for your confidence in C4 Laboratories. We strive to be an authority on cannabis education, targeted therapies and patient protection. Also, as a research laboratory, we hope to discover novel cannabis constituents through our efforts with academic research programs in the C4 Cannabinomics Collaborative. For more information about how you can collaborate with our research team please visit our website at [www.c4lab.com](http://www.c4lab.com).



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