# Certificate of Analysis



## Venom Extracts

Phoenix, AZ 85022
jcohen089@gmail.com
(602) 405-6446
Lic. #0259910DARS639141001

## Sample: 1805C4L0209.5445

Strain: Deep Sleep
Lot#: ; Batch#: ; Batch Size: - grams
Sample Received: 05/30/2018; Report Created: 06/01/2018; Expires: 06/01/2019

## Deep Sleep

Concentrates & Extracts, Crumble, Butane

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As an additional measure of quality control, we provide a historical reference (when available) to analytical results from an equivalent strain of cannabis/cannabis product to draw comparison.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 homogeniety, 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 variablity 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.

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Mesa, AZ
(480) 219-6460
http://www.c4lab.com
Lic#

Aaron Hicks
Director of Laboratory Operations

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## Cannabinoids

| 75.089% | 0.950% |
|---|---|
| Total THC | Total CBD |

## Safety

| Not Tested | Pass | Pass |
|---|---|---|
| Microbials | Foreign Matter | Solvents |

## Terpenes

| Pine | Turpentine | Flowers | Hops | Wood |
|---|---|---|---|---|
| α-Pinene | Terpinolene | Geraniol | β-Myrcene | γ-Terpinene |

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| 75.089% | 0.950% |
|---|---|
| Total THC | Total CBD |

| 79.1 | : | 1.0 |
|---|---|---|
| THC | | CBD |

## Cannabinoids

**Pass**
Foreign Matter

| Analyte | LOQ | Mass | Mass | Std. Dev. |
|---|---|---|---|---|
| | % | % | mg/g | |
| THCa | 0.010 | 79.963 | 799.63 | |
| Δ9-THC | 0.010 | 4.961 | 49.61 | |
| CBD | 0.010 | ND | ND | |
| CBDa | 0.010 | 1.083 | 10.83 | |
| CBC | 0.010 | ND | ND | |
| CBG | 0.010 | ND | ND | |
| CBN | 0.010 | ND | ND | |
| THCV | 0.010 | ND | ND | |
| Δ8-THC | 0.010 | ND | ND | |
| CBDV | 0.010 | ND | ND | |
| **Total** | | **86.007** | **860.07** | |

Total THC = THCa * 0.877 + d9-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.

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## Deep Sleep

Concentrates & Extracts, Crumble, Butane

## Terpenes

Pine | Turpentine | Flowers | Hops | Wood

| Analyte | LOQ % | Mass % | Mass mg/g |
|---|---|---|---|
| α-Pinene | 0.001 | 0.068 | 0.68 |
| Terpinolene | 0.001 | 0.041 | 0.41 |
| Geraniol | 0.001 | 0.032 | 0.32 |
| β-Pinene | 0.001 | 0.030 | 0.30 |
| β-Myrcene | 0.001 | 0.024 | 0.24 |
| γ-Terpinene | 0.001 | 0.010 | 0.10 |
| β-Caryophyllene | 0.001 | 0.007 | 0.07 |
| p-Cymene | 0.001 | 0.007 | 0.07 |
| Ocimene | 0.001 | 0.005 | 0.05 |
| α-Terpinene | 0.001 | 0.004 | 0.04 |
| δ-Limonene | 0.001 | 0.004 | 0.04 |
| Camphene | 0.001 | 0.003 | 0.03 |
| α-Humulene | 0.001 | ND | ND |
| Caryophyllene Oxide | 0.001 | ND | ND |
| δ-3-Carene | 0.001 | ND | ND |
| Eucalyptol | 0.001 | ND | ND |
| Guaiol | 0.001 | ND | ND |
| Linalool | 0.001 | ND | ND |
| Nerolidol | 0.001 | ND | ND |
| (-)-α-Bisabolol | 0.001 | ND | ND |
| (-)-Isopulegol | 0.001 | ND | ND |

**0.235%**

Total Terpenes

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

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## Deep Sleep

Concentrates & Extracts, Crumble, Butane

## Residual Solvents

Pass

| Analyte | Mass | Status |
|---|---|---|
| | PPM | |
| Acetone | 9 | Pass |
| Acetonitrile | ND | Pass |
| Chloroform | ND | Pass |
| Ethanol | ND | Pass |
| Heptane | ND | Pass |
| Hexanes | ND | Pass |
| Isobutane | ND | Pass |
| Isopropanol | ND | Pass |
| Methanol | ND | Pass |
| n-Butane | ND | Pass |
| Toluene | ND | Pass |

LOQ = Limit of Quantitation (1 ppm); ND = Not Detected; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory.

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## Deep Sleep

Concentrates & Extracts, Crumble, Butane

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

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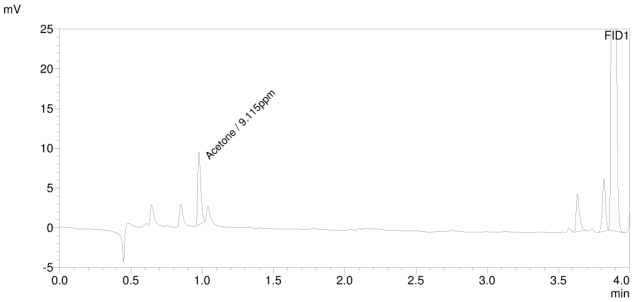
### *C4 Laboratories, LLC*

| | | | |
|---|---|---|---|
| Sample Name | : 1805C4L0209.5445_Deep_Sleep | | |
| Sample ID | : Venom Extracts | | |
| Data Filename | : 1805C4L0209.5445_Deep_Sleep.gcd | | |
| Method Filename | : Solvents v3 10May18.gcm | | |
| Batch Filename | : Batch v1.gcb | | |
| Vial # | : 62 | Sample Type | : Concentrate |
| Injection Volume | : 1000 uL | | |
| Date Acquired | : 6/1/2018 2:03:22 AM | Acquired by | : Zach Hanes |
| Date Processed | : 6/1/2018 2:23:25 AM | Processed by | : Zach Hanes |

**Solvents Headspace Analysis**




FID1

| Solvent | Conc. |
|---|---|
| t-butane | -- |
| n-butane | -- |
| Methanol | -- |
| Ethanol | -- |
| Acetone | 9.115 ppm |
| Isopropanol | -- |
| Acetonitrile | -- |
| RT:1.508 | -- |
| RT:1.878 | -- |
| RT:2.124 | -- |
| RT:2.268 | -- |
| RT:2.932 | -- |
| RT:3.669 | -- |

C:\LabSolutions\Data\31 May 2018\1805C4L0209.5445_Deep_Sleep.gcd



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## Deep Sleep

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Suite D206
Mesa, AZ 85210
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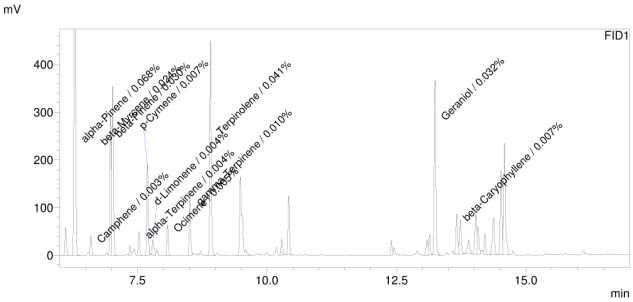
| | | | |
|---|---|---|---|
| Sample Name | : 1805C4L0209.5445_Deep_Sleep_ter | | |
| Sample ID | : Venom Extracts | | |
| Data Filename | : 1805C4L0209.5445_Deep_Sleep_ter.gcd | | |
| Method Filename | : Terpenes v3 21May18.gcm | | |
| Batch Filename | : Batch v4.gcb | | |
| Vial # | : 37 | Sample Type | : Extract |
| Injection Volume | : 1000 uL | | |
| Date Acquired | : 5/31/2018 11:17:33 AM | Acquired by | : Zach Hanes |
| Date Processed | : 5/31/2018 11:37:37 AM | Processed by | : Zach Hanes |

**Terpenes Headspace Analysis**




FID1

| Terpene | Conc. |
|---|---|
| alpha-Pinene | 0.068 % |
| Camphene | 0.003 % |
| beta-Pinene | 0.030 % |
| beta-Myrcene | 0.024 % |
| delta-3-Carene | -- |
| alpha-Terpinene | 0.004 % |
| p-Cymene | 0.007 % |
| d-Limonene | 0.004 % |
| Ocimene | 0.005 % |
| gamma-Terpinene | 0.010 % |
| Terpinolene | 0.041 % |
| Linalool | -- |
| Isopulegol | -- |
| Geraniol | 0.032 % |
| beta-Caryophyllene | 0.007 % |
| alpha-Humulene | -- |
| Nerolidol | -- |
| Guaiol | -- |
| alpha-Bisabolol | -- |
| Eucalyptol | -- |
| Caryophyllene oxide | -- |

C:\LabSolutions\Data\30 May 2018\1805C4L0209.5445_Deep_Sleep_ter.gcd

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Mesa, AZ
(480) 219-6460
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Lic#

Aaron Hicks
Director of Laboratory Operations

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1930 S. Alma School Rd
Suite D206
Mesa, AZ 85210
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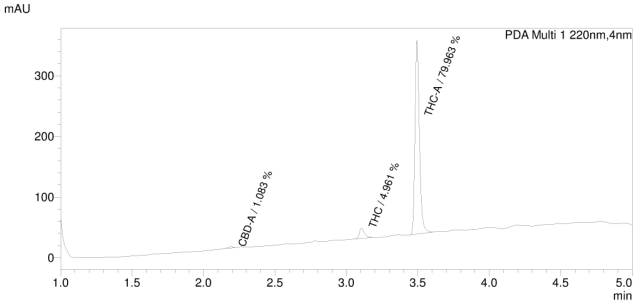
| | | | |
|---|---|---|---|
| Sample Name | : 1805C4L0209.5445_Deep_Sleep | | |
| Sample ID | : Venom Extracts | | |
| Data Filename | : 1805C4L0209.5445_Deep_Sleep_001.lcd | | |
| Method Filename | : 10 cannabinoids 30 May 2018.lcm | | |
| Batch Filename | : Batch v12.lcb | | |
| Vial # | : 1-25 | Sample Type | : Concentrate |
| Injection Volume | : 5 uL | | |
| Date Acquired | : 5/31/2018 2:24:15 PM | Acquired by | : Aaron J. Hicks |
| Date Processed | : 5/31/2018 2:31:18 PM | Processed by | : Aaron J. Hicks |

### Cannabinoids by HPLC




### Cannabinoids

PDA

| Ret. Time | Area | Conc. | Name |
|---|---|---|---|
| -- | -- | -- | CBD-V |
| 2.192 | 4735 | 1.083% | CBD-A |
| -- | -- | -- | CBG |
| -- | -- | -- | CBD |
| -- | -- | -- | THC-V |
| -- | -- | -- | CBN |
| 3.105 | 41958 | 4.961% | THC |
| -- | -- | -- | d8-THC |
| -- | -- | -- | CBC |
| 3.494 | 685655 | 79.963% | THC-A |

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