

UNIT MASS (g): 1

"-" Not detected above RL.

Deviations from standard operating procedure: None

Recoveries for all analyte standards: 90-110% Replicate Uncertainties: <5% RSD, <20% RPD Sample/Reagent Blanks: <RL for all analytes

Values for plant matter are adjusted for moisture

Total THC = (THCa x 0.877) + Δ 9-THC

Percentage results are reported by mass.

mg/g results are reported as mass component per mass

Abbreviations: UV - Ultraviolet, HPLC - High Pressure

Liquid Chromatography, RL - Reporting Limit, RPD -

Relative Percent Difference, RSD - Relative Standard

Total CBD = (CBDa x 0.877) + CBD

CERTIFICATE OF ANALYSIS

| Order Type: CB Order ID: OR20 | | | ustomer ID: 32 ustomer Name: CBD | Plus USA | Harvest/Extract Lot: None Harvest/Extract Batch: None |
|--|----------------------|-------------------------|---|-------------------------|---|
| Cultivar (Strain): Sour Diesel + CRD 5018 | | + CRD La | ab ID: SA2019-3129 | | Sample Matrix: Concentrate |
| Sample Date: 04 | /02/2019 | Da | ate Received: 04/02/2 | 019 | Date Completed: 04/05/2019 |
| | | R | emarks: | | |
| | | (| CANNABINOID (PO | TENCY) PROF | ILE |
| Analysis Date/Ti Analyst: OL | ime: 04/02/201 | 19 2351 | Method: HPLC/DA Instrument: Agilen | | od-001) Moisture Content (%): - Water Activity (aw): - |
| <u>Cannabinoid</u> | <u>Result</u> (%) | <u>Result</u> (mg/g) | <u>Reporting Limit</u> (mg/g) | <u>Per Unit</u> (mg) | |
| CBD | 39 | 390 | 0.302 | 390 | |
| CBDa | - | - | 0.302 | - | |
| CBDv | 0.515 | 5.15 | 0.302 | 5.15 | |
| $\Delta 9$ -THC | - | - | 0.302 | - | Warsanza, Sour Diesel + CR0.50 |
| $\Delta 8$ -THC | - | - | 0.302 | - | Heavy Heavy Petitides, Petitides |
| THCa | - | - | 0.302 | - | |
| THCv | - | - | 0.302 | - | |

0.302

0.302

0.302

0.302

118

44.9

_

67

625

_

390

content.

material.

Deviation

| C | Cannabinoid Distribution |
|---|---------------------------|
| | (% of Total Cannabinoids) |
| | |

118

44.9

-

67

625

_

390

11.8

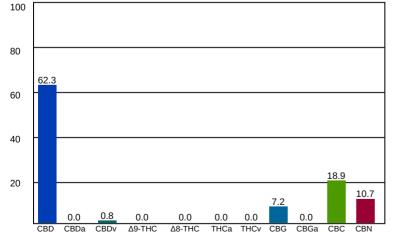
4.49

-

6.7

62.5

39



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CBC

CBG

CBGa

CBN

TOTAL

TOTAL THC

TOTAL CBD

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CERTIFICATE OF ANALYSIS

| Order Type: CBD | Customer ID: 32 | Harvest/Extract Lot: None |
|---|--|--|
| Order ID: OR2019-910 | Customer Name: CBD Plus USA | Harvest/Extract Batch: None |
| Cultivar (Strain): Sour Diesel + CRD 5018 Sample Date: 04/02/2019 | Lab ID: SA2019-3129 Date Received: 04/02/2019 | Sample Matrix: Concentrate Date Completed: 04/05/2019 |
| F | Remarks: | F 0 # 00# 2010 |

TERPENOID PROFILE

Analysis Date/Time: 04/02/2019 2351 **Analyst:** OL Method: HS/GC/FID (Internal Method-002) Instrument: Agilent 6890 **Deviations from SOP:** None

| <u>oene</u> | <u>Result</u> (µg/g) | Distribution (%, total | |
|------------------|-------------------------|---------------------------|---|
| Bisabolol | 36 | <u>terpenes)</u> 0.197 | |
| nphene | 38 | 0.206 | |
| -Carene | 476 | 2.6 | |
| Caryophyllene | 1295 | 7.08 | 19323 Sour Diese Con- |
| yophyllene de | 26 | 0.141 | |
| ymene | - | - | |
| calyptol | - | - | |
| aniol | - | - | |
| aiol | 6 | 0.0307 | <i>Abbreviations:</i> HS - Headspace, GC - Gas Chromatography, MS - Mass |
| umulene | 76 | 0.413 | Spectrometry, RL - Reporting Limit |
| oulegol | - | - | This information is provided as a service and makes no claims of efficacy |
| imonene | 4979 | 27.2 | and/or safety of this product. |
| alool | 1517 | 8.28 | Results are applicable only for the |
| <i>Iycene</i> | 6406 | 35 | sample(s) analyzed and for the specific analysis conducted. |
| -Nerolidol | - | - | This report is for informational |
| ns-Nerolidol | - | - | purposes only and should not be used to diagnose, treat, or prevent any |
| Cimene | - | - | medical-related symptoms. |
| cimene | 17 | 0.0942 | The statements and results herein have |
| inene | 2411 | 13.2 | not been approved and/or endorsed by the FDA. |
| Pinene | 645 | 3.52 | |
| erpinene | - | - | |
| erpinene | - | - | |
| pinolene | 380 | 2.08 | "-" Not detected above RL. |
| TAL | 18307 | 100 | Reporting Limit (µ |





CERTIFICATE OF ANALYSIS

Customer ID: 32 Customer Name: CBD Plus USA

Cultivar (Strain): Sour Diesel + CRD 5018 Sample Date: 04/02/2019

Analysis Date/Time: 04/02/2019 2351

Order Type: CBD

Analyst: OL

Order ID: OR2019-910

Lab ID: SA2019-3129 Date Received: 04/02/2019

Remarks:

RESIDUAL SOLVENT PROFILE

Method: USP <467> Instrument: Agilent 6890 Harvest/Extract Lot: None Harvest/Extract Batch: None

Sample Matrix: Concentrate

Date Completed: 04/05/2019

Deviations from SOP: None

| <u>Solvent</u> | <u>Result</u> (µg/g) | <u>Action Level</u> (μg/g) | Solvent | <u>Result</u> (µg/g) | <u>Action Level</u> <u>(μg/g)</u> | |
|----------------------------------|-------------------------|-------------------------------|-----------------------------------|-------------------------|--------------------------------------|--------------------------------|
| Acetone (67-64-1) | - | 5000 | n-Heptane (142-82-5) | - | 5000 | |
| Acetonitrile (75-5-8) | - | 410 | n-Hexane (110-54-3) | - | 290 | |
| Benzene (71-43-2) | - | 2 | Isobutane (75-28-5) | - | 5000 | Variation Store Denvil + Class |
| n-Butane (106-97-2) | - | 5000 | Isopropanol (67-63-0) | - | 5000 | Newsy Constants |
| 1-Butanol (71-36-3) | - | 5000 | Isopropyl acetate (108-21-4) | - | 5000 | |
| 2-Butanol (78-92-2) | - | 5000 | Isopropyl benzene (98-82-8) | - | 70 | |
| 2-Butanone (78-93-3) | - | 5000 | Methanol (67-56-1) | - | 3000 | |
| Cyclohexane (110-82-7) | - | 3880 | 2-Methylbutane (78-78-4) | - | 5000 | Color Key |
| 1,2-Dimethoxyethane (110-71-4) | - | 100 | Methylene chloride (75-9-2) | - | 600 | RESULT < 1/2 AL |
| N,N-Dimethylacetamide (127-19-5) | - | 1090 | 2-Methylpentane (107-83-5) | - | 290 | |
| 2,2-Dimethylbutane (75-83-2) | - | 290 | 3-Methylpentane (96-10-0) | - | 290 | 1/2 AL < RESULT < AL |
| 2,3-Dimethylbutane (79-29-8) | - | 290 | n-Pentane (109-66-0) | - | 5000 | RESULT > AL |
| N,N-Dimethylformamide (68-12-2) | - | 880 | 1-Pentanol (71-41-0) | - | 5000 | Reporting Limit (µg/g) |
| Dimethylsulfoxide (67-68-5) | - | 5000 | n-Propane (74-98-6) | - | 5000 | 1/2 of AL |
| 1,4-Dioxane (123-91-1) | - | 380 | 1-Propanol (71-23-8) | - | 5000 | "-" not detected above |
| Ethanol (64-17-5) | - | 5000 | Pyridine (110-86-1) | - | 200 | reporting limit |
| 2-Ethoxyethanol (110-80-5) | - | 160 | Tetrahydrofuran (109-99-9) | - | 720 | 1 0 |
| Ethyl ether (60-29-7) | - | 5000 | Tetramethylene sulfone (126-33-0) | - | 160 | "*" - o,m,p-Xylene and |
| Ethyl acetate (141-78-6) | - | 5000 | Toluene (108-88-3) | - | 890 | Ethylbenzene |
| Ethyl benzene (100-41-4) | - | 217 | o-Xylene (95-47-6) | - | 2170 | |
| Ethylene glycol (107-21-1) | - | 620 | m,p-Xylene (108-38-3 or 106-42-3) | - | 2170 | |
| Ethylene oxide (75-21-8) | - | 50 | Xylenes* (1330-20-7) | - | 2170 | |

| <u>Solvent</u> | <u>Synonym(s)</u> | <u>Solvent</u> | <u>Synonym(s)</u> | <u>Solvent</u> | <u>Synonym(s)</u> |
|-----------------------|-----------------------------|-------------------|-----------------------------|------------------------|-------------------|
| Acetonitrile | Methyl Cyanide, ACN | 2-Ethoxyethanol | Cellosolve, Ethyl glycol | Methanol | Methyl alcohol |
| 1-Butanol | n-Butanol, Butyl | Ethyl ether | Diethyl ether, Ether | 2-Methylbutane | Isopentane |
| 1 Dutation | Alcohol | Ethyl acetate | EtOAc | Methylene chloride | Dichloromethane |
| 2-Butanol | sec-Butyl alcohol | Ethyl benzene | Phenylethane | 2-Methylpentane | Isohexane |
| 2-Butanone | Methyl ethyl ketone, MEK | Ethylene glycol | 1,2-Ethanediol | 1-Pentanol | n-Amyl alcohol |
| 1.2 Dimethermothermo | | Ethylene oxide | Oxirane | 1-Propanol | Propyl alcohol |
| 1,2-Dimethoxyethane | Monoglyme | Isobutane | 2-Methylpropane | Tetrahydrofuran | THF |
| 2,3-Dimethylbutane | Neohexane | Isopropanol | 2-Propanol, IPA | Tetramethylene sulfone | Sulfolane |
| 2,3-Dimethylbutane | Diisopropyl | 1 1 | 1 , | 5 | |
| N,N-Dimethylformamide | DMF | Isopropyl Acetate | Acetic acid isopropyl ester | Xylene | Dimethylbenzene |
| Dimethysufoxide | DMSO | | | | |

Abbreviations: HS-Headspace, GC-Gas Chromatography, MS-Mass Spectrometry, RL-Reporting Limit, AL-Action Level CAS-Chemical Abstract Services

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Analysis Date/Time: 04/02/2019 2351

Order Type: CBD

5018

Analyst: OL

Order ID: OR2019-910

Arkansas Location Laboratory Address: 232 S. Broadview St. Greenbrier, AR 72058 Telephone: (501) 679-2616

Harvest/Extract Lot: None

Harvest/Extract Batch: None

Sample Matrix: Concentrate

Date Completed: 04/05/2019

CERTIFICATE OF ANALYSIS

| Customer ID: 32 | |
|-------------------------|-----|
| Customer Name: CBD Plus | USA |
| | |

Cultivar (Strain): Sour Diesel + CRD Lab ID: SA2019-3129 Sample Date: 04/02/2019 Date Received: 04/02/2019

Remarks:

PESTICIDES PROFILE

Method: LC/MS/MS and GC/MS Instrument: Waters Acquity/TQD **Deviations from SOP:**

None

| | | | | (), i q 2 | 1.0110 | |
|-----------------------------------|-------------------------|--------------------------------------|--------------------------------|-------------------------|-------------------------------|---|
| Pesticide | <u>Result</u> (µg/g) | <u>Action Level</u> <u>(μg/g)</u> | Pesticide | <u>Result</u> (µg/g) | <u>Action Level</u> (μg/g) | |
| Abamectin (71751-41-2) | - | 0.5 | Imazalil (35554-44-0) | - | 0.2 | • |
| Acephate (30560-19-1) | - | 0.4 | Imidacloprid (138261-41-3) | - | 0.4 | Visition Reverted a Concern |
| Acequinocyl (57960-19-7) | - | 2 | Kresoxim-methyl* (143390-89-0) | - | 0.4 | And and a second and a second |
| Acetamiprid (135410-20-7) | - | 0.2 | Malathion (121-75-5) | - | 0.2 | |
| Aldicarb (116-06-3) | - | 0.4 | Metalaxyl* (57837-19-1) | - | 0.2 | |
| Azoxystrobin (131860-33-8) | - | 0.2 | Methiocarb (2032-65-7) | - | 0.2 | Color Key |
| Bifenazate* (149877-41-8) | - | 0.2 | Methomyl (16752-77-5) | - | 0.4 | <u></u> |
| Bifenthrin* (82657-04-3) | - | 0.2 | Methyl parathion* (298-0-0) | - | 0.2 | RESULT < 1/2 AL |
| Boscalid* (188425-85-6) | - | 0.4 | MGK 264* (113-48-4) | - | 0.2 | 1/2 AL < RESULT < AL |
| Carbaryl (63-25-2) | - | 0.2 | Myclobutanil (88671-89-0) | - | 0.2 | RESULT > AL |
| Carbofuran (1563-66-2) | - | 0.2 | Naled (300-76-5) | - | 0.5 | Reporting Limit (µg/g) |
| Chlorantraniliprole (800008-45-7) | - | 0.2 | Oxamyl (23135-22-0) | - | 1 | 1/2 of AL |
| Chlorfenapyr* (122453-73-0) | - | 1 | Paclobutrazol* (76738-62-0) | - | 0.4 | |
| Chlorpyrifos* (2921-88-2) | - | 0.2 | Permethrins* (52645-53-1) | - | 0.2 | "-" not detected above reporting limit |
| Clofentezine (74115-24-5) | - | 0.2 | Phosmet* (732-11-6) | - | 0.2 | |
| Cyfluthrin* (68359-37-5) | - | 1 | Piperonyl butoxide* (51-03-6) | - | 2 | "*" analyzed by GC/MS |
| Cypermethrin* (52315-07-8) | - | 1 | Prallethrins* (2331-36-9) | - | 0.2 | (all others analyzed |
| Daminozide (1596-84-5) | - | 1 | Propiconazole (60207-90-1)) | - | 0.4 | by LC/MS/MS) |
| DDVP (62-73-7) | - | 0.1 | Propoxur* (114-26-1) | - | 0.2 | Permethrins neasured as |
| Diazinon* (333-41-5) | - | 0.2 | Pyrethrins* (8003-34-7) | - | 1 | the cumulative residue of |
| Dimethoate (60-51-5) | - | 0.2 | Pyridaben* (96489-71-3) | - | 0.2 | the <i>cis</i> - and <i>trans</i> - |
| Ethoprophos* (13194-48-4) | - | 0.2 | Spinosad A (168316-95-8) | - | 0.2 | permethrin isomers. |
| Etofenprox (80844-07-1) | - | 0.4 | Spinosad D (168316-95-8) | - | 0.2 | Pyrethrin measures as the |
| Etoxazole (153233-91-1) | - | 0.2 | Spiromesifen (283594-90-1) | - | 0.2 | cumulative residue of |
| Fenoxycarb (72490-01-8) | - | 0.2 | Spirotetramat (203313-25-1) | - | 0.2 | pyrethrin I, cinerin I, and |
| (E)-Fenpyroximate (134098-61-6) | - | 0.4 | Spiroxamine (118134-30-8) | - | 0.4 | jasmolin I. |
| Fipronil* (120068-37-3) | - | 0.4 | Tebuconazole (80443-41-0) | - | 0.4 | |
| Flonicamid (158062-67-0) | - | 1 | Thiacloprid (111988-49-9) | - | 0.2 | |
| Fludioxinil (131341-86-1) | - | 0.4 | Thiamethoxam (153719-23-4) | - | 0.2 | |
| Hexythiazox (78587-05-0) | - | 1 | Trifloxystrobin* (141517-21-7) | - | 0.2 | |
| | | | | | | |

Abbreviations: LC - Liquid Chromatography, GC - Gas Chromatography, MS - Mass Spectrometry, RK - Reporting Limit, AL - Action Level, CAS - Chemical Abstract Services

| Pesticide | <u>Synonym(s)</u> | Pesticide | <u>Synonym(s)</u> | Pesticide | Synonym(s) |
|------------------|-------------------|--------------|-------------------|---------------|------------|
| Cyfluthrin | Baythroid | Myclobutanil | Systhane | Propiconazole | Tilt |
| DDVP | Dichlorvos | Naled | Dibrom | Propoxur | Baygon |
| Ethoprophos | Prophos | Phosmet | Imidan | | |

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CERTIFICATE OF ANALYSIS

| Order Type: CBD | Customer ID: 32 | Harvest/Extract Lot: None |
|--|-----------------------------|-----------------------------|
| Order ID: OR2019-910 | Customer Name: CBD Plus USA | Harvest/Extract Batch: None |
| Cultivar (Strain): Sour Diesel + CRD 5018 | Lab ID: SA2019-3129 | Sample Matrix: Concentrate |
| Sample Date: 04/02/2019 | Date Received: 04/02/2019 | Date Completed: 04/05/2019 |
| | Remarks: | |
| | HEAVY METAL PROFILE | |
| Analysis Date/Time: 04/02/2019 2351 | Method: ICP/MS | Deviations from SOP: |

Analyst: OL

Heavy Metal

Arsenic (As)

Lead (Pb)

Cadmium (Cd)

Mercury (Hg)

Instrument: PerkinElmer Elan 9000

Action Level

<u>(µg/kg)</u>

200

200

100

500

None



Abbreviations: ICP - Inductively-Coupled Plasma, OES - Optical Emission Spectroscopy, RL - Reporting Limit, AL - Action Level

Result

(µg/kg)

Color Key

RESULT < 1/2 AL 1/2 AL < RESULT < AL **RESULT > AL**

Reporting Limit (µg/kg) 50

"-" not detected above reporting limit

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CERTIFICATE OF ANALYSIS

| Order Type: CBD Order ID: OR2019-910 | Customer ID: 3 Customer Nam | 32 1e: CBD Plus USA | Harvest/Extract Lot: None Harvest/Extract Batch: None | |
|--|--------------------------------|-------------------------------|--|--|
| Cultivar (Strain): Sour Diesel + CRD 5018 | Lab ID: SA201 | 9-3129 | Sample Matrix: Concentrate | |
| Sample Date: 04/02/2019 | Date Received: | : 04/02/2019 | Date Completed: 04/05/2019 | |
| | Remarks: | | | |
| | MICROB | IOLOGICAL PROFILE | | |
| Analysis Date/Time: 04/02/2019 2351 | Method: | Hardy Diagnostics CompactDr | y Deviations from SOP: | |
| Analyst: OL | Instrume | ent: | None | |
| Bacteria/Microbe | <u>Result</u> (CFU/g) | Action Level (CFU/g) | | |
| Aerobic Plate Count, Total | NT | 100 | | |

| Aerobic Plate Count, Total | NI |
|----------------------------|------|
| Coliforms, Total | Abse |
| Escherichia Coli (E. Coli) | Abse |
| Mold | Abse |
| Yeast | Abse |
| Salmonella spp. | Abse |
| | |

Action Level (CFU/g) 100 100 1 1 10000 10000

1



Abbreviations: EC - Escherichia Coli, CFU - Colony-Forming Unit, RL - Reporting Limit, AL - Action Level, NT - Not Tested

Color Key

RESULT < 1/2 AL 1/2 AL < RESULT < AL RESULT > AL

Reporting Limit (CFU/g) 1

"-" not detected above reporting limit

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Kyle W. Felling, Ph.D. tory Directo

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