

Certificate of Analysis

Product: P243 PHB Tincture 300 mg CBD Full Spectrum - LA Compliant

Batch Number: 11943

Best-By Date: 02/28/2022

| Characteristic | Instrument | Specification | Result | Pass/ Fail/ N/A |
|--|-------------------------|----------------------------|------------------------------|-----------------|
| <i>Identity</i> | | | | |
| Color & Appearance | Visual | Golden tinted oily liquid | Complies | Pass |
| Odor | Organoleptic | Characteristic of standard | Complies | Pass |
| Taste | Organoleptic | Neutral to bitter | Complies | Pass |
| <i>Composition</i> | | | | |
| Density | Density Meter | 0.908 – 0.955 g/mL | Complies | Pass |
| Fill Volume | In-Process Verification | 30.0 - 31.5 mL/bottle | Complies | Pass |
| <i>Strength - Cannabinoids</i> | | | | |
| Total CBD ¹ | HPLC | 300.0 - 408.0 mg/bottle | 353.0 mg/bottle ⁴ | Pass |
| Total THC ¹ | HPLC | ≤ 0.30%; Detected | 0.05% ⁴ | Pass |
| CBDa | HPLC | Report Result | Not Detected ⁴ | N/A |
| CBG | HPLC | Report Result | Not Detected ⁴ | N/A |
| CBD | HPLC | Report Result | 1.31% ⁴ | N/A |
| CBN | HPLC | Report Result | Not Detected ⁴ | N/A |
| THC | HPLC | Report Result | 0.05% ⁴ | N/A |
| CBC | HPLC | Report Result | 0.005% ⁴ | N/A |
| THCa | HPLC | Report Result | Not Detected ⁴ | N/A |
| <i>Contaminants - Residual Solvents</i> | | | | |
| Acetone | GC-FID | < 1,000 ppm | Complies ⁴ | Pass |
| Butanes | GC-FID | < 1,000 ppm | Complies ⁴ | Pass |
| Ethanol | GC-FID | < 1,000 ppm | Complies ⁴ | Pass |
| Heptanes | GC-FID | < 1,000 ppm | Complies ⁴ | Pass |
| Isopropyl Alcohol | GC-FID | < 1,000 ppm | Complies ⁴ | Pass |
| Propane | GC-FID | < 1,000 ppm | Complies ⁴ | Pass |
| Benzene | GC-FID | < 2 ppm | Complies ⁴ | Pass |
| Toluene | GC-FID | < 180 ppm | Complies ⁴ | Pass |
| Pentane | GC-FID | < 1,000 ppm | Complies ⁴ | Pass |
| Hexane | GC-FID | < 60 ppm | Complies ⁴ | Pass |
| Total Xylenes (m,p,o-xylenes) | GC-FID | < 430 ppm | Complies ⁴ | Pass |
| Methanol | GC-FID | < 600 ppm | Complies ⁴ | Pass |
| Ethyl Acetate | GC-FID | < 1,000 ppm | Complies ⁴ | Pass |



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| Contaminants - Pesticides | | | | |
| Abamectin (avermectins: B1a & B1b) | GC-MS / LC-MS | < 0.07 ppm | Complies ⁴ | Pass |
| Azoxystrobin | GC-MS / LC-MS | < 0.02 ppm | Complies ⁴ | Pass |
| Bifenazate | GC-MS / LC-MS | < 0.02 ppm | Complies ⁴ | Pass |
| Etoxazole | GC-MS / LC-MS | < 0.01 ppm | Complies ⁴ | Pass |
| Imazalil | GC-MS / LC-MS | < 0.04 ppm | Complies ⁴ | Pass |
| Imidacloprid | GC-MS / LC-MS | < 0.02 ppm | Complies ⁴ | Pass |
| Malathion | GC-MS / LC-MS | < 0.05 ppm | Complies ⁴ | Pass |
| Myclobutanil | GC-MS / LC-MS | < 0.04 ppm | Complies ⁴ | Pass |
| Permethrin (mix of isomers) | GC-MS / LC-MS | < 0.04 ppm | Complies ⁴ | Pass |
| Spinosad (mixture of A and D) | GC-MS / LC-MS | < 0.06 ppm | Complies ⁴ | Pass |
| Spiromesifen | GC-MS / LC-MS | < 0.03 ppm | Complies ⁴ | Pass |
| Spirotetramat | GC-MS / LC-MS | < 0.02 ppm | Complies ⁴ | Pass |
| Tebuconazole | GC-MS / LC-MS | < 0.01 ppm | Complies ⁴ | Pass |
| Contaminants - Heavy Metals | | | | |
| Arsenic | ICP-MS USP <730> | < 1.36 µg/mL | Complies ⁴ | Pass |
| Cadmium | ICP-MS USP <730> | < 0.45 µg/mL | Complies ⁴ | Pass |
| Lead | ICP-MS USP <730> | < 0.50 µg/mL | Complies ⁴ | Pass |
| Mercury | ICP-MS USP <730> | < 0.30 µg/mL | Complies ⁴ | Pass |
| Microbial Purity | | | | |
| Total Plate Count | USP <2021> | < 10,000 CFU/g | Complies ⁴ | Pass |
| Yeast & Mold | USP <2021> | ≤ 1,000 CFU/g | Complies ⁴ | Pass |
| <i>E. coli</i> | FDA BAM | < 3 MPN/g | Complies ⁴ | Pass |
| Shiga-Toxin Producing <i>Escherichia coli</i> (STEC) | qPCR | < 1 CFU/g | S.L. ² | N/A |
| <i>Salmonella spp.</i> | USP <2022> | Absent/10 g | Complies ⁴ | Pass |

¹ All cannabinoids in their acid forms (ending in "a") are convertible to their non-acid forms via a decarboxylation process (heating). The THC and CBD maximum values reported are the maximum theoretical amounts of THC and CBD the tested product would have if it were fully decarboxylated.

² S.L. means "Skip Lot". Parameters are being monitored through product qualification testing and are currently in skip lot protocol.

³ Cannabinoid detected below Limit of Quantitation (LOQ).

⁴ Result was acquired by 3rd party laboratory.

Reviewed By: _____








Date: 04.21.20

Approved By: _____

Date: 04.21.20

INFUSED II LABORATORY REPORT

| | | | |
|-------------------|--------------------------------|----------------|----------------------|
| Customer Name: | Greenhouse Growing Systems LLC | Product Name: | Tincture Formulation |
| Customer License: | 403H-65086 | Product Type: | Liquid Edible |
| Batch Number: | R&D | Sample ID: | 321185 |
| METRC Tag: | 1A400071267EC1E000000476 | Date Received: | 01/23/2020 |
| Instrument Name: | HPLC 1100-2 | Test Date: | 01/25/2020 |
| | | Report Date: | 01/27/2020 |

| ACIDIC COMPOUND mg/unit | NEUTRAL COMPOUND mg/unit | Conversion Ratio ¹ |
|-------------------------|--------------------------|---|
| CBDVA ND* | CBDV 7.81 |  CBDV 100% |
| THCVA ND* | THCV ND* |  THCV NR* |
| CBDA ND* | CBD 353.01 |  CBD 100% |
| THCA ND* | THC 13.59 |  THC 100% |
| CBCA ND* | CBC 1.24 |  CBC 100% |
| CBGA ND* | CBG ND* |  CBG NR* |
| CBNA ND* | CBN ND* |  CBN NR* |

Unit mass = 27.0 g
Jan 04.21.20

Notes:

n = 1, stdev = 0, %RSD = 0% Sample Passes Homogeneity

* None Reported (NR) because the compound exists at or below the limit of quantitation but above the limit of detection.

* None Detected (ND) because the compound exists at or below the limit of detection.

* Potency (SOP 020)

* Sample Condition deemed acceptable upon receipt by Phytatech. Sampling done by outside party.

* Units of % are (mass/mass) and reflect numbers as a fraction of 100.

¹ Conversion ratio indicates the amount of neutral cannabinoid compared directly to its acidic counterpart. A number close to 1 means a high neutral content. A number close to 0 indicates a high acidic cannabinoid content.



Stephen Goldman
Laboratory Director



PESTICIDES LABORATORY REPORT

Customer Name: Greenhouse Growing Systems LLC Product Name: Tincture Formulation
Customer License: 403H-65086 Product Type: Liquid Edible
Batch Number: R&D Sample ID: 321185
METRC Tag: 1A400071267EC1E000000476 Date Received: 01/23/2020
Instrument Name: HPLC 1050 Test Date: 01/27/2020
Report Date: 01/27/2020

| PESTICIDE | ppb |
|--------------------|-----|
| ■ Abamectin | ND* |
| ■ Avermectin B1b | ND* |
| ■ Azoxystrobin | ND* |
| ■ Bifenazate | ND* |
| ■ Etoxazole | ND* |
| ■ Imazalil | ND* |
| ■ Imidacloprid | ND* |
| ■ Malathion A | ND* |
| ■ Myclobutanil | ND* |
| ■ Cis Permethrin | ND* |
| ■ Trans Permethrin | ND* |
| ■ Spinosyn A | ND* |
| ■ Spinosyn D | ND* |
| ■ Spiromesifen | ND* |
| ■ Spirotetramat | ND* |
| ■ Tebuconazole | ND* |

Notes:

* None Reported (NR) because the compound exists at or below the detection limit of the method.

* None Detected (ND) because the compound was not detected.



Stephen Goldman
Laboratory Director



RESIDUAL SOLVENTS LABORATORY REPORT

Customer Name: Greenhouse Growing Systems LLC Product Name: Tincture Formulation
Customer License: 403H-65086 Product Type: Liquid Edible
Batch Number: R&D Sample ID: 321185
METRC Tag: 1A400071267EC1E000000476 Date Received: 01/23/2020
Instrument Name: GC 5890 Test Date: 01/24/2020
Report Date: 01/27/2020

RESIDUAL SOLVENTS
parts per million (ppm)

| | |
|---------------------|-----|
| ■ Acetone | ND* |
| ■ Benzene | ND* |
| ■ Butane | ND* |
| ■ Ethanol | NR* |
| ■ Heptane | ND* |
| ■ Hexane | ND* |
| ■ Isobutane | ND* |
| ■ Isopropyl Alcohol | ND* |
| ■ Pentane | ND* |
| ■ Propane | ND* |
| ■ Toluene | ND* |
| ■ Xylene | ND* |

Notes:

* None Reported (NR) because the compound exists at or below the limit of quantitation but above the limit of detection.

* None Detected (ND) because the compound exists at or below the limit of detection.

* Residual Solvents (SOP 032)

* Sample Condition deemed acceptable upon receipt by Phytatech. Sampling done by outside party.



Stephen Goldman
Laboratory Director





40 West Louise Ave., Salt Lake City, UT 84115
 Phone: (801) 485-1800 Fax: (801) 484-9211
 Email: utlab@advancedlabsinc.com
 FDA Registration #14353128308

If you liked our service, please tell a friend. If you didn't, please tell us!

Test Certificate

Description: 300 mg FS HSO Tincture
 Sample ID: 11943
 Lot No:
 Location:
 Received: 1/22/2020
 Completed: 1/29/2020

Client: Advanced Extraction
 5455 Spine Road #E
 Boulder, CO 80301

Lab No: 186987-01

| Analysis | Result | Per Unit | Specifications | Method |
|----------|---------|----------|----------------|------------------|
| Mercury | < 0.001 | ppm | Report | ICP-MS USP <730> |
| Lead | 0.002 | ppm | Report | ICP-MS USP <730> |
| Arsenic | 0.033 | ppm | Report | ICP-MS USP <730> |
| Cadmium | < 0.001 | ppm | Report | ICP-MS USP <730> |

THESE RESULTS APPLY ONLY TO THE SAMPLE SUBMITTED AND NOT TO THE PRODUCT FROM WHICH IT WAS TAKEN. THESE RESULTS ARE PROVIDED ONLY FOR THE BENEFIT OF CLIENT, WITHOUT REPRESENTATION OR WARRANTY OF ANY KIND, EXCEPT FOR THE EXPRESS LIMITED WARRANTY PROVIDED SOLELY TO CLIENT IN ADVANCED LABORATORIES' TERMS OF SERVICE.

THIS CERTIFICATE SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT WRITTEN APPROVAL FROM ADVANCED LABORATORIES.

Results Approved By: 
 Alisa Farnsworth-Quality Technician

Dated: 1/29/2020

Printed: 1/29/2020 2:47:58 PM





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Test Certificate

Description: 300 mg FS HSO Tincture
 Sample ID: 11943
 Lot No:
 Location:
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 Completed: 1/28/2020

Client: Advanced Extraction
 5455 Spine Road #E
 Boulder, CO 80301

Lab No: 186986-01

| Analysis | Result | Per Unit | Specifications | Method |
|-------------------------------|--------|--------------|----------------|------------|
| Total Aerobic Microbial Count | <10 | CFU/g | Report | USP <2021> |
| E. Coli Count | <3 | MPN/g | Report | FDA BAM |
| Salmonella | Absent | per 10 grams | Report | USP <2022> |
| Total Yeast & Mold | <10 | CFU/g | Report | USP <2021> |
| Yeast * | <10 | CFU/g | Report | |
| Mold * | <10 | CFU/g | Report | |

FDA BAM Method Utilized: 10g sample size

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Results Approved By: 
 Alisa Farnsworth-Quality Technician

Dated: 1/28/2020

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