



Certificate of Analysis

Product: PHBO-0067 PHB Tincture 1,500 mg CBD Broad Spectrum - LA Compliant

Batch Number: 353900

Best-By Date: 03/24/23

Characteristic	Instrument	Specification	Result	Pass/ Fail/ N/A
Identity				
Color & Appearance	Visual	Golden tinted oily liquid	Complies	Pass
Odor	Organoleptic	Characteristic of standard	Complies	Pass
Taste	Organoleptic	Neutral to bitter	Complies	Pass
Composition				
Density	Density Meter	0.908 – 0.955 g/mL	Complies	Pass
Fill Volume	In-Process Verification	30.0 - 31.5 mL/bottle	Complies	Pass
Strength - Cannabinoids				
Total CBD ¹	HPLC	1,500.0 - 2,040.0 mg/bottle	1,586.0 mg/bottle ⁴	Pass
Total THC ¹	HPLC	Not Detected	Not Detected ⁴	Pass
CBDa	HPLC	Report Result	Not Detected ⁴	N/A
CBG	HPLC	Report Result	0.09% ⁴	N/A
CBD	HPLC	Report Result	5.66% ⁴	N/A
CBN	HPLC	Report Result	Not Detected ⁴	N/A
THC	HPLC	Report Result	Not Detected ⁴	N/A
CBC	HPLC	Report Result	Not Detected ⁴	N/A
THCa	HPLC	Report Result	Not Detected ⁴	N/A
Contaminants - Residual Solvents				
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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Batch Number: 353900

Best-By Date: 03/24/23

Characteristic	Instrument	Specification	Result	Pass/ Fail/ N/A
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>	< 3,000 CFU/g	Complies ⁴	Pass
Yeast & Mold	USP <2021>	≤ 300 CFU/g	Complies ⁴	Pass
<i>E. coli</i>	USP <2022>	Absent/10 g	Complies ⁴	Pass
<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).

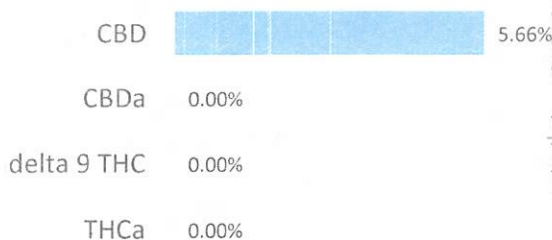
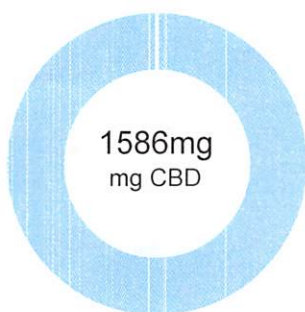
⁴ Result was acquired by 3rd party laboratory.

Approved By: _____

Date: 10.30.20

FG-00-1003-PHBO-0067

Batch ID:	353900	Test ID:	T000098717
Reported:	28-Sep-2020	Method:	TM14
Type:	Unit		
Test:	Potency		

CANNABINOID PROFILE


Compound	LOQ (mg)	Result (mg)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	6.13	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	3.00	ND	ND
Cannabidiolic acid (CBDA)	1.07	ND	ND
Cannabidiol (CBD)	2.29	1586.00	56.6
Delta 8-Tetrahydrocannabinol (Delta 8THC)	3.28	ND	ND
Cannabinolic Acid (CBNA)	8.50	ND	ND
Cannabinol (CBN)	3.73	ND	ND
Cannabigerolic acid (CBGA)	5.35	ND	ND
Cannabigerol (CBG)	3.00	24.11	0.9
Tetrahydrocannabivarinic Acid (THCVA)	5.22	ND	ND
Tetrahydrocannabivarin (THCV)	2.67	ND	ND
Cannabidivarinic Acid (CBDVA)	1.03	ND	ND
Cannabidivarin (CBDV)	0.56	13.08	0.5
Cannabichromenic Acid (CBCA)	4.70	ND	ND
Cannabichromene (CBC)	5.44	ND	ND
Total Cannabinoids		1623.19	58.0
Total Potential THC**		ND	ND
Total Potential CBD**		1586.00	56.6

NOTES:

of Servings = 1, Sample Weight=28g

N/A

% = w (w/w) = Percent (Weight of Analyte / Weight of Product)
 * Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.
 ** Total Potential THC/CBD is calculated using the following formulas:
 Total THC = THC + (THCVA * 0.8773) and
 Total CBD = CBD + (CBDVA * 0.8773)
 ND = None Detected (Detected by Dynamic Range of the method)

FINAL APPROVAL
Michelle Gagnon
 28-Sep-2020
 12:35 PM

Greg Zimpfer
 28-Sep-2020
 1:08 PM

PREPARED BY / DATE

APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC. ISO/IEC 17025:2005 Accredited A2LA Certificate Number 4329.02



FG-00-1003-PHBO-0067

Batch ID:	353900	Test ID:	t000102927
Type:	Concentrate	Submitted:	10/13/2020 @ 11:40 AM
Test:	Residual Solvents	Started:	10/15/2020
Method:	TM04	Reported:	10/15/2020

RESIDUAL SOLVENTS

Solvent	Dynamic Range (ppm)	Result (ppm)
Propane	86 - 1727	*ND
Butanes (Isobutane, n-Butane)	176 - 3518	*ND
Methanol	59 - 1179	*ND
Pentane	92 - 1848	*ND
Ethanol	92 - 1838	106
Acetone	97 - 1931	*ND
Isopropyl Alcohol	101 - 2020	*ND
Hexane	6 - 116	*ND
Ethyl Acetate	97 - 1931	*ND
Benzene	0.2 - 3.8	*ND
Heptanes	92 - 1843	*ND
Toluene	17 - 331	*ND
Xylenes (m,p,o-Xylenes)	117 - 2344	*ND

* ND = None Detected (Defined by Dynamic Range of the method)

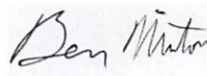
NOTES:

N/A

FINAL APPROVAL



 Ryan Weems
 15-Oct-2020
 2:50 PM



 Ben Minton
 15-Oct-2020
 3:14 PM

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APPROVED BY / DATE

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Certificate #4329.02

FG-00-1003-PHBO-0067

Batch ID:	353900	Test ID:	T000102928
Type:	Concentrate	Submitted:	10/13/2020 @ 11:40 AM
Test:	Pesticides	Started:	10/14/2020
Method:		Reported:	10/15/2020

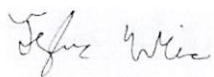
PESTICIDE RESIDUE

Compound	Dynamic Range (ppb)	Result (ppb)	Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	37 - 2492	ND*	Malathion	294 - 2492	ND*
Acetamiprid	36 - 2492	ND*	Metalaxyl	40 - 2492	ND*
Abamectin	>289	ND*	Methiocarb	39 - 2492	ND*
Azoxystrobin	41 - 2492	ND*	Methomyl	37 - 2492	ND*
Bifenazate	42 - 2492	ND*	MGK 264 1	163 - 2492	ND*
Boscalid	53 - 2492	ND*	MGK 264 2	110 - 2492	ND*
Carbaryl	44 - 2492	ND*	Myclobutanil	40 - 2492	ND*
Carbofuran	41 - 2492	ND*	Naled	47 - 2492	ND*
Chlorantraniliprole	49 - 2492	ND*	Oxamyl	40 - 2492	ND*
Chlorpyrifos	52 - 2492	ND*	Paclobutrazol	46 - 2492	ND*
Clofentezine	294 - 2492	ND*	Permethrin	288 - 2492	ND*
Diazinon	315 - 2492	ND*	Phosmet	42 - 2492	ND*
Dichlorvos	>302	ND*	Prophos	267 - 2492	ND*
Dimethoate	39 - 2492	ND*	Propoxur	43 - 2492	ND*
E-Fenpyroximate	278 - 2492	ND*	Pyridaben	289 - 2492	ND*
Etofenprox	43 - 2492	ND*	Spinosad A	29 - 2492	ND*
Etoxazole	288 - 2492	ND*	Spinosad D	80 - 2492	ND*
Fenoxycarb	>44	ND*	Spiromesifen	>292	ND*
Fipronil	41 - 2492	ND*	Spirotetramat	>297	ND*
Flonicamid	49 - 2492	ND*	Spiroxamine 1	17 - 2492	ND*
Fludioxonil	>277	ND*	Spiroxamine 2	22 - 2492	ND*
Hexythiazox	43 - 2492	ND*	Tebuconazole	301 - 2492	ND*
Imazalil	274 - 2492	ND*	Thiacloprid	40 - 2492	ND*
Imidacloprid	45 - 2492	ND*	Thiamethoxam	40 - 2492	ND*
Kresoxim-methyl	45 - 2492	ND*	Trifloxystrobin	43 - 2492	ND*

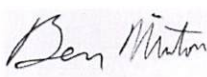
* ND = None Detected (Defined by Dynamic Range of the method)

N/A

FINAL APPROVAL



 Tyler Wiese
 15-Oct-2020
 3:51 PM



 Ben Minton
 15-Oct-2020
 6:24 PM

PREPARED BY / DATE

APPROVED BY / DATE

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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: PHBO-1500MG CBD BSH Per 30mL REFINED HEMP S	Client: AP
Sample ID: 26.00BPRINS353900-S4	Elite Health Partners
Lot No: 353900	5455 Spine Rd
Location:	Boulder, CO 80301
Received: 9/25/2020	US
Completed: 10/2/2020	Lab No: 203828-01

Analysis	Result	Per Unit	Specifications	Method
Mercury	<0.001	ppm	Report	ICP-MS USP <730>
Lead	0.013	ppm	Report	ICP-MS USP <730>
Arsenic	0.005	ppm	Report	ICP-MS USP <730>
Cadmium	0.002	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.

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Results Approved By: 
 Kristina Nollf-Quality Technician

Dated: 10/2/2020

Printed: 10/2/2020 3:06:38 PM





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

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Test Certificate

Description: PHBO - 1500mg CBD BSH Per 30.00 ml Refined Hemp
 Sample ID: 26.00BPRINS353900-S5
 Lot No: 353900
 Location:
 Received: 9/30/2020
 Completed: 10/5/2020

Client: AP
 Elite Health Partners
 5455 Spine Rd
 Boulder, CO 80301
 US

Lab No: 204048-01

Analysis	Result	Per Unit	Specifications	Method
Total Aerobic Microbial Count	<10	CFU/g	Report	USP <2021>
Coliform	<10	CFU/g	Report	AOAC 991.14
E.Coli	Absent	per 10 grams	Report	USP <2022>
Staphylococcus aureus	Absent	per 10 grams	Report	USP <2022>
Salmonella	Absent	per 10 grams	Report	USP <2022>
Total Yeast & Mold	<10	CFU/g	Report	USP <2021>
Yeast *	<10	CFU/g	Report	USP <2021>
Mold *	<10	CFU/g	Report	USP <2021>

* For informational purposes only.

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

Results Approved By: _____

Kristina Nollf-Quality Technician

Dated: _____

10/5/2020

Printed: 10/5/2020 4:05:46 PM

