



Certificate of Analysis

Product: PHBO-0068 PHB Tincture 750 mg CBD Broad Spectrum - LA Compliant

Batch Number: 350007

Best-By Date: 03/23/23

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	750.0 - 1,020.0 mg/bottle	864.1 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	0.03% ⁴	N/A
CBD	HPLC	Report Result	3.10% ⁴	N/A
CBN	HPLC	Report Result	0.02% ⁴	N/A
THC	HPLC	Report Result	Not Detected ⁴	N/A
CBC	HPLC	Report Result	0.03% 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: 350007

Best-By Date: 03/23/23

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
Etoxadole	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>	< 3 MPN/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.

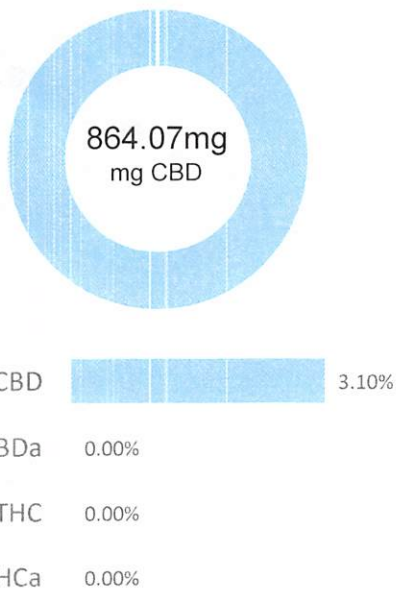
Approved By: _____

Date: _____

10.30.20

FG-00-1003-PHBO-0068

Batch ID:	350007	Test ID:	T000098718
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)	5.31	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	2.60	ND	ND
Cannabidiolic acid (CBDA)	0.93	ND	ND
Cannabidiol (CBD)	1.99	864.07	31.0
Delta 8-Tetrahydrocannabinol (Delta 8THC)	2.84	ND	ND
Cannabinolic Acid (CBNA)	7.37	ND	ND
Cannabinol (CBN)	3.23	4.25	0.2
Cannabigerolic acid (CBGA)	4.64	ND	ND
Cannabigerol (CBG)	2.60	8.80	0.3
Tetrahydrocannabivarinic Acid (THCVA)	4.53	ND	ND
Tetrahydrocannabivarin (THCV)	2.32	ND	ND
Cannabidivarinic Acid (CBDVA)	0.89	ND	ND
Cannabidivarin (CBDV)	0.48	3.61	0.1
Cannabichromenic Acid (CBCA)	4.08	ND	ND
Cannabichromene (CBC)	4.71	8.11	0.3
Total Cannabinoids		888.84	31.9
Total Potential THC**		ND	ND
Total Potential CBD**		864.07	31.0

 NOTES:
 # of Servings = 1, Sample Weight=27.9g

N/A

% = % (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
 to take into account the loss of a carboxyl group during
 decarboxylation step
 Total THC = THC + (THCA * (0.877)) and
 Total CBD = CBD + (CBDA * (0.877))
 ND = None Detected (Defined by Dynamic Ranges 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 #329.02



FG-00-1003-PHBO-0068

Batch ID:	350007	Test ID:	t000102929
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	79 - 1575	*ND
Butanes (Isobutane, n-Butane)	160 - 3208	*ND
Methanol	54 - 1075	*ND
Pentane	84 - 1686	*ND
Ethanol	84 - 1676	*ND
Acetone	88 - 1761	*ND
Isopropyl Alcohol	92 - 1843	*ND
Hexane	5 - 106	*ND
Ethyl Acetate	88 - 1761	*ND
Benzene	0.2 - 3.5	*ND
Heptanes	84 - 1681	*ND
Toluene	15 - 302	*ND
Xylenes (m,p,o-Xylenes)	107 - 2138	*ND

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

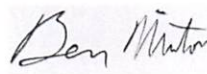
NOTES:

N/A

FINAL APPROVAL



 Ryan Weems
 15-Oct-2020
 2:50 PM



 Ben Minton
 15-Oct-2020
 3:14 PM

PREPARED BY / DATE

APPROVED BY / DATE

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Certificate #4329.02

FG-00-1003-PHBO-0068

Batch ID:	350007	Test ID:	T000102930
Type:	Concentrate	Submitted:	10/13/2020 @ 11:40 AM
Test:	Pesticides	Started:	10/14/2020
Method:		Reported:	10/15/2020

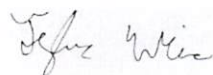
PESTICIDE RESIDUE

Compound	Dynamic Range (ppb)	Result (ppb)	Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	37 - 2513	ND*	Malathion	297 - 2513	ND*
Acetamiprid	36 - 2513	ND*	Metalaxyl	40 - 2513	ND*
Abamectin	>292	ND*	Methiocarb	39 - 2513	ND*
Azoxystrobin	41 - 2513	ND*	Methomyl	37 - 2513	ND*
Bifenazate	42 - 2513	ND*	MGK 264 1	165 - 2513	ND*
Boscalid	53 - 2513	ND*	MGK 264 2	111 - 2513	ND*
Carbaryl	44 - 2513	ND*	Myclobutanil	40 - 2513	ND*
Carbofuran	41 - 2513	ND*	Naled	47 - 2513	ND*
Chlorantraniliprole	49 - 2513	ND*	Oxamyl	40 - 2513	ND*
Chlorpyrifos	52 - 2513	ND*	Paclobutrazol	46 - 2513	ND*
Clofentezine	297 - 2513	ND*	Permethrin	291 - 2513	ND*
Diazinon	318 - 2513	ND*	Phosmet	42 - 2513	ND*
Dichlorvos	>305	ND*	Prophos	269 - 2513	ND*
Dimethoate	39 - 2513	ND*	Propoxur	43 - 2513	ND*
E-Fenpyroximate	280 - 2513	ND*	Pyridaben	292 - 2513	ND*
Etofenprox	43 - 2513	ND*	Spinosad A	29 - 2513	ND*
Etoxazole	291 - 2513	ND*	Spinosad D	80 - 2513	ND*
Fenoxycarb	>44	ND*	Spiromesifen	>295	ND*
Fipronil	41 - 2513	ND*	Spirotetramat	>300	ND*
Flonicamid	49 - 2513	ND*	Spiroxamine 1	17 - 2513	ND*
Fludioxonil	>279	ND*	Spiroxamine 2	22 - 2513	ND*
Hexythiazox	43 - 2513	ND*	Tebuconazole	304 - 2513	ND*
Imazalil	276 - 2513	ND*	Thiacloprid	40 - 2513	ND*
Imidacloprid	45 - 2513	ND*	Thiamethoxam	40 - 2513	ND*
Kresoxim-methyl	45 - 2513	ND*	Trifloxystrobin	43 - 2513	ND*

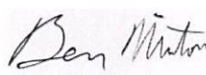
* ND = None Detected (Defined by Dynamic Range of the method)

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-750mg BSH Per 1 fl oz Refined Hemp Seed Oil
 Sample ID: 26.00BPRINS350007-S4
 Lot No: 350007
 Location:
 Received: 9/24/2020
 Completed: 10/1/2020

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

Lab No: 203770-01

Analysis	Result	Per Unit	Specifications	Method
Mercury	<0.001	ppm	Report	ICP-MS USP <730>
Lead	0.017	ppm	Report	ICP-MS USP <730>
Arsenic	<0.001	ppm	Report	ICP-MS USP <730>
Cadmium	0.001	ppm	Report	ICP-MS USP <730>

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

Results Approved By:

Kristina Nollff-Quality Technician

Dated:

10/1/2020

Printed: 10/1/2020 1:40:51 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 - 750mg BSH Per 1 fl oz Refined Hemp Seed Oil
 Sample ID: 26.00BPRINS350007-S3
 Lot No: 350007
 Location:
 Received: 9/30/2020
 Completed: 10/5/2020

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

Lab No: 204047-01

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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Results Approved By: 
 Kristina Nolf-Quality Technician

Dated: 10/5/2020

Printed: 10/5/2020 4:06:12 PM

