



Certificate of Analysis

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

Batch Number: 575921

Best-By Date: 02/20/23

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 – Cannabinoids⁵				
Total CBD ¹	HPLC	300.0 - 408.0 mg/bottle	311.7 mg/bottle ⁴	Pass
Total THC ¹	HPLC	≤ 0.30%; Detected	0.03% ⁴	Pass
CBDa	HPLC	Report Result	Not Detected ⁴	N/A
CBG	HPLC	Report Result	0.05% ⁴	N/A
CBD	HPLC	Report Result	1.12% ⁴	N/A
CBN	HPLC	Report Result	Not Detected ⁴	N/A
THC	HPLC	Report Result	0.03% ⁴	N/A
CBC	HPLC	Report Result	0.07% 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: 575921

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Characteristic	Instrument	Specification	Result	Pass/ Fail/ N/A
Contaminants - Pesticides				
Abamectin (avermectins: B1a & B1b)	GC-MS / LC-MS	Report Result	Not Detected ⁴	N/A
Azoxystrobin	GC-MS / LC-MS	Report Result	Not Detected ⁴	N/A
Bifenazate	GC-MS / LC-MS	Report Result	Not Detected ⁴	N/A
Etoazole	GC-MS / LC-MS	Report Result	Not Detected ⁴	N/A
Imazalil	GC-MS / LC-MS	Report Result	Not Detected ⁴	N/A
Imidacloprid	GC-MS / LC-MS	Report Result	Not Detected ⁴	N/A
Malathion	GC-MS / LC-MS	Report Result	Not Detected ⁴	N/A
Myclobutanil	GC-MS / LC-MS	Report Result	Not Detected ⁴	N/A
Permethrin (mix of isomers)	GC-MS / LC-MS	Report Result	Not Detected ⁴	N/A
Spinosad (mixture of A and D)	GC-MS / LC-MS	Report Result	Not Detected ⁴	N/A
Spiromesifen	GC-MS / LC-MS	Report Result	Not Detected ⁴	N/A
Spirotetramat	GC-MS / LC-MS	Report Result	Not Detected ⁴	N/A
Tebuconazole	GC-MS / LC-MS	Report Result	Not Detected ⁴	N/A
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.

⁵ Bulk tincture batch 513138 was packed into finished good batch 575921. Cannabinoid testing on 513138 applies to 575921.

Reviewed By: _____

Date: 09.10.20

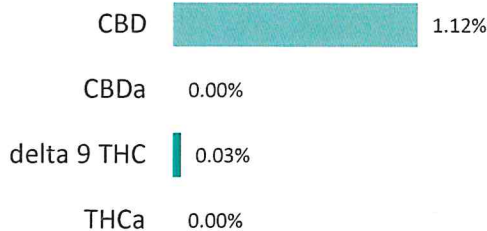
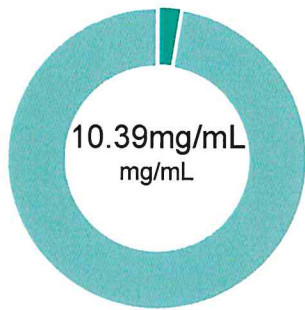
Approved By: _____

Date: 09.10.20

CP-FORM-0000-0385

Batch ID: 513138-S2 *	Test ID: t000091961
Reported: 21-Aug-2020	Method: TM14
Type: Solution	
Test: Potency	

* Bulk batch 513138 packed into finished Good batch 575921. *Sam*
 9.10.20

CANNABINOID PROFILE


Compound	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.06	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.03	0.31	0.3
Cannabidiolic acid (CBDA)	0.05	ND	ND
Cannabidiol (CBD)	0.03	10.39	11.2
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.03	ND	ND
Cannabinolic Acid (CBNA)	0.09	ND	ND
Cannabinol (CBN)	0.04	ND	ND
Cannabigerolic acid (CBGA)	0.05	ND	ND
Cannabigerol (CBG)	0.03	0.43	0.5
Tetrahydrocannabivarinic Acid (THCVA)	0.05	ND	ND
Tetrahydrocannabivarin (THCV)	0.03	ND	ND
Cannabidivarinic Acid (CBDVA)	0.05	ND	ND
Cannabidivarin (CBDV)	0.03	0.03	0.0
Cannabichromenic Acid (CBCA)	0.05	ND	ND
Cannabichromene (CBC)	0.06	0.65	0.7
Total Cannabinoids		11.81	12.8
Total Potential THC**		0.31	0.3
Total Potential CBD**		10.39	11.2

NOTES:

Density = 0.926g/mL

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 Range of the method)

FINAL APPROVAL

Sam Smith
Sam Smith
 21-Aug-2020
 5:00 PM



Scott Hansen
 21-Aug-2020
 7:14 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



Certificate #4329.02

300 mg FS Tincture - LA Compliant


Batch ID:	575921	Test ID:	T000092977
Reported:	1-Sep-2020	Method:	TM04
Type:	Concentrate		
Test:	Residual Solvents		

RESIDUAL SOLVENTS

Solvent	Dynamic Range (ppm)	Result (ppm)
Propane	63 - 1253	*ND
Butanes (Isobutane, n-Butane)	127 - 2534	*ND
Methanol	50 - 992	*ND
Pentane	72 - 1434	*ND
Ethanol	68 - 1363	*ND
Acetone	82 - 1631	*ND
Isopropyl Alcohol	86 - 1717	*ND
Hexane	5 - 100	*ND
Ethyl Acetate	83 - 1652	*ND
Benzene	0.2 - 3.3	*ND
Heptanes	77 - 1531	*ND
Toluene	15 - 298	*ND
Xylenes (m,p,o-Xylenes)	109 - 2173	*ND


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

NOTES:
N/A

FINAL APPROVAL


PREPARED BY / DATE

Ryan Weems
1-Sep-2020
3:33 PM



APPROVED BY / DATE

Ben Minton
1-Sep-2020
3:43 PM

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Certificate #4329.02

300 mg FS Tincture - LA Compliant

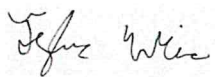
Batch ID:	575921	Test ID:	T000092978
Reported:	28-Aug-2020	Method:	TM17
Type:	Concentrate		
Test:	Pesticides		

PESTICIDE RESIDUE

Compound	Dynamic Range (ppb)	Result (ppb)	Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	38 - 2292	ND*	Malathion	270 - 2292	ND*
Acetamiprid	36 - 2292	ND*	Metalaxyl	35 - 2292	ND*
Abamectin	>318	ND*	Methiocarb	38 - 2292	ND*
Azoxystrobin	39 - 2292	ND*	Methomyl	34 - 2292	ND*
Bifenazate	39 - 2292	ND*	MGK 264 1	160 - 2292	ND*
Boscalid	42 - 2292	ND*	MGK 264 2	96 - 2292	ND*
Carbaryl	39 - 2292	ND*	Myclobutanil	46 - 2292	ND*
Carbofuran	38 - 2292	ND*	Naled	41 - 2292	ND*
Chlorantraniliprole	28 - 2292	ND*	Oxamyl	34 - 2292	ND*
Chlorpyrifos	39 - 2292	ND*	Paclobutrazol	42 - 2292	ND*
Clofentezine	250 - 2292	ND*	Permethrin	235 - 2292	ND*
Diazinon	273 - 2292	ND*	Phosmet	38 - 2292	ND*
Dichlorvos	>247	ND*	Prophos	267 - 2292	ND*
Dimethoate	35 - 2292	ND*	Propoxur	38 - 2292	ND*
E-Fenpyroximate	281 - 2292	ND*	Pyridaben	273 - 2292	ND*
Etofenprox	38 - 2292	ND*	Spinosad A	28 - 2292	ND*
Etoxazole	290 - 2292	ND*	Spinosad D	73 - 2292	ND*
Fenoxycarb	>39	ND*	Spiromesifen	>266	ND*
Fipronil	42 - 2292	ND*	Spirotetramat	>302	ND*
Fonicamid	41 - 2292	ND*	Spiroxamine 1	17 - 2292	ND*
Fludioxonil	>264	ND*	Spiroxamine 2	22 - 2292	ND*
Hexythiazox	38 - 2292	ND*	Tebuconazole	287 - 2292	ND*
Imazalil	265 - 2292	ND*	Thiacloprid	36 - 2292	ND*
Imidacloprid	57 - 2292	ND*	Thiamethoxam	34 - 2292	ND*
Kresoxim-methyl	40 - 2292	ND*	Trifloxystrobin	39 - 2292	ND*

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

N/A

FINAL APPROVAL


Tyler Wiese
 28-Aug-2020
 3:19 PM



Greg Zimpfer
 28-Aug-2020
 4:04 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: 300 FS Tincture - LA
 Sample ID: 575921
 Lot No:
 Location:
 Received: 8/27/2020
 Completed: 9/3/2020

Client: Dylan Neal
 Anthology Brands
 1026 S Williams Street
 Denver, CO 90209
 United States

Lab No: 202229-01

Analysis	Result	Per Unit	Specifications	Method
Mercury	<0.001	mcg/ml	<= 0.3 mcg/ml	ICP-MS USP <730>
Lead	0.016	mcg/ml	<= 0.5 mcg/ml	ICP-MS USP <730>
Arsenic	<0.001	mcg/ml	<= 10 mcg/ml	ICP-MS USP <730>
Cadmium	<0.001	mcg/ml	<= 4.1 mcg/ml	ICP-MS USP <730>

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Results Approved By:


 Kristina Nolf-Quality Technician

Dated: 9/3/2020

Printed: 9/3/2020 11:43:25 AM





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 - 300mg CBD FSH Per 1 fl oz Refined Hemp Seed
 Sample ID: 15.00BPRINS575921-S1
 Lot No: 575921
 Location:
 Received: 8/27/2020
 Completed: 9/2/2020

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

Lab No: 202233-01

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 Noll - Quality Technician

Dated:

9/2/2020

Printed: 9/2/2020 3:09:43 PM

