

Certificate of Analysis

Product: P247 PHB 750 mg Softgel - LA Compliant

Batch Number: 11997

Best-By Date: 04/10/2022

Characteristic	Instrument	Specification	Result	Pass/ Fail/ N/A
Identity				
Color & Appearance	Visual	Oval softgel with golden tinted oily liquid	Complies	Pass
Odor	Organoleptic	Characteristic of standard	Complies	Pass
Taste	Organoleptic	Neutral	Complies	Pass
Composition				
Fill Density	Density Meter	0.930 – 0.977 g/mL	Complies	Pass
Softgel Fill Weight	Gravimetric	0.67 – 0.76 g/softgel	Complies	Pass
Softgel Total Weight	Gravimetric	0.97 – 1.12 g/softgel	Complies	Pass
Strength - Cannabinoids				
Total CBD ¹	HPLC	750.0 - 1,020.0 mg/bottle	777.2 mg/bottle ⁴	Pass
Total THC ¹	HPLC	≤ 0.30%; Detected	0.14% ⁴	Pass
CBDa	HPLC	Report Result	Not Detected ⁴	N/A
CBG	HPLC	Report Result	0.13% ⁴	N/A
CBD	HPLC	Report Result	3.81% ⁴	N/A
CBN	HPLC	Report Result	Not Detected ⁴	N/A
THC	HPLC	Report Result	0.14% 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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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
Etoazole	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>	< 1.68 µg/softgel	Complies ⁴	Pass
Cadmium	ICP-MS USP <730>	< 0.56 µg/softgel	Complies ⁴	Pass
Lead	ICP-MS USP <730>	< 0.50 µg/softgel	Complies ⁴	Pass
Mercury	ICP-MS USP <730>	< 0.30 µg/softgel	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: _____

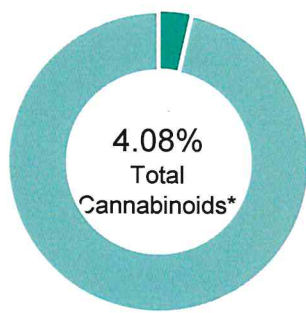
Date: 05.15.20

Approved By: _____

Date: 05.15.20

B004 750 mg Softgels - LA Compliant

Batch ID:	11997	Test ID:	1838911.0013
Reported:	14-May-2020	Method:	TM14
Type:	Concentrate		
Test:	Potency		

CANNABINOID PROFILE


CBD 3.81%

CBDa 0.00%

delta 9 THC 0.14%

THCa 0.00%

Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.04	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.02	0.14	1.4
Cannabidiolic acid (CBDA)	0.09	ND	ND
Cannabidiol (CBD)	0.05	3.81	38.1
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.02	ND	ND
Cannabinolic Acid (CBNA)	0.05	ND	ND
Cannabinol (CBN)	0.02	ND	ND
Cannabigerolic acid (CBGA)	0.03	ND	ND
Cannabigerol (CBG)	0.02	0.13	1.3
Tetrahydrocannabivarinic Acid (THCVA)	0.03	ND	ND
Tetrahydrocannabivarin (THCV)	0.02	ND	ND
Cannabidivarinic Acid (CBDVA)	0.08	ND	ND
Cannabidivarin (CBDV)	0.05	ND	ND
Cannabichromenic Acid (CBCA)	0.03	ND	ND
Cannabichromene (CBC)	0.04	ND	ND

Total Cannabinoids	4.08	40.80
Total Potential THC**	0.14	1.40
Total Potential CBD**	3.81	38.10

NOTES:

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

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

FINAL APPROVAL


 Ryan Weems
14-May-2020
12:50 PM



 Ben Minton
14-May-2020
2:12 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

B004 750mg Softgels - LA Complaint

Batch ID:	11997	Test ID:	T000074742
Reported:	12-May-2020	Method:	TM04
Type:	Concentrate		
Test:	Residual Solvents		

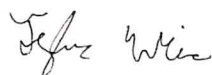
RESIDUAL SOLVENTS

Solvent	Dynamic Range (ppm)	Result (ppm)
Propane	87 - 1746	*ND
Butanes (Isobutane, n-Butane)	157 - 3144	*ND
Methanol	59 - 1183	*ND
Pentane	88 - 1758	*ND
Ethanol	86 - 1726	*ND
Acetone	96 - 1917	*ND
Isopropyl Alcohol	100 - 2004	*ND
Hexane	6 - 118	*ND
Ethyl Acetate	97 - 1936	*ND
Benzene	0.2 - 3.8	*ND
Heptanes	90 - 1810	*ND
Toluene	17 - 349	*ND
Xylenes (m,p,o-Xylenes)	127 - 2533	*ND

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

NOTES:

N/A

FINAL APPROVALTyler Wiese
12-May-2020
6:06 PMBen Minton
12-May-2020
8:12 PM

PREPARED BY / DATE

APPROVED BY / DATE

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Certificate #4329.02

B004 750mg Softgels - LA Complaint

Batch ID:	11997	Test ID:	7391813.0032
Reported:	12-May-2020	Method:	TM17
Type:	Concentrate		
Test:	Pesticides		

PESTICIDE RESIDUE

Compound	Dynamic Range (ppb)	Result (ppb)	Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	56 - 2570	ND*	Malathion	333 - 2570	ND*
Acetamiprid	56 - 2570	ND*	Metalaxyl	56 - 2570	ND*
Abamectin	>333	ND*	Methiocarb	56 - 2570	ND*
Azoxystrobin	56 - 2570	ND*	Methomyl	56 - 2570	ND*
Bifenazate	56 - 2570	ND*	MGK 264 1	333 - 2570	ND*
Boscalid	56 - 2570	ND*	MGK 264 2	333 - 2570	ND*
Carbaryl	56 - 2570	ND*	Myclobutanil	56 - 2570	ND*
Carbofuran	56 - 2570	ND*	Naled	56 - 2570	ND*
Chlorantraniliprole	56 - 2570	ND*	Oxamyl	56 - 2570	ND*
Chlorpyrifos	56 - 2570	ND*	Paclobutrazol	56 - 2570	ND*
Clofentezine	333 - 2570	ND*	Permethrin	333 - 2570	ND*
Diazinon	333 - 2570	ND*	Phosmet	56 - 2570	ND*
Dichlorvos	>333	ND*	Prophos	333 - 2570	ND*
Dimethoate	56 - 2570	ND*	Propoxur	56 - 2570	ND*
E-Fenpyroximate	56 - 2570	ND*	Pyridaben	56 - 2570	ND*
Etofenprox	56 - 2570	ND*	Spinosad A	56 - 2570	ND*
Etiozazole	333 - 2570	ND*	Spinosad D	333 - 2570	ND*
Fenoxycarb	>56	ND*	Spiromesifen	>333	ND*
Fipronil	56 - 2570	ND*	Spirotetramat	>333	ND*
Flonicamid	56 - 2570	ND*	Spiroxamine 1	56 - 2570	ND*
Fludioxonil	>333	ND*	Spiroxamine 2	56 - 2570	ND*
Hexythiazox	56 - 2570	ND*	Tebuconazole	333 - 2570	ND*
Imazalil	333 - 2570	ND*	Thiacloprid	56 - 2570	ND*
Imidacloprid	56 - 2570	ND*	Thiamethoxam	56 - 2570	ND*
Kresoxim-methyl	56 - 2570	ND*	Trifloxystrobin	56 - 2570	ND*

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

N/A

FINAL APPROVAL


Tyler Wiese
12-May-2020
6:36 PM

PREPARED BY / DATE


Ben Minton
12-May-2020
8:00 PM

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

Test Certificate

Description: 750 mg Softgels
Sample ID: 11997
Lot No:
Location:
Received: 5/7/2020
Completed: 5/14/2020

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

Lab No: 195602-01

Analysis	Result	Per Unit	Specifications	Method
Mercury	< 0.001	ppm	< 0.3 ppm	ICP-MS USP <730>
Lead	0.018	ppm	< 0.5 ppm	ICP-MS USP <730>
Arsenic	0.011	ppm	< 10 ppm	ICP-MS USP <730>
Cadmium	0.001	ppm	< 4.1 ppm	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:

Kristina Nolfi-Quality Technician

Dated: 5/14/2020

Printed: 5/14/2020 4:38:29 PM





CERTIFICATE OF ANALYSIS

Report Status: **RELEASED**Report Date: **05/10/2020**Sante Sample ID: **20A325**

Page 1 of 1

Company Name: Elite Health Partners Address: 1725 Skyway Dr. Suite 150, Longmont, CO 80504 Phone Number: 720-845-0654	Contact Name: Tate Ignelzi Contact Email: Tate@elitehealthpartners.com Purchase Order Number: Not Provided
Sample Name: B004 PHB 750 mg Softgels Sample Lot Number: 11997 Sample Received: 05/07/2020	Sample/Product Description: Softgel Sample/Product Type: Edible Sample Matrix: MCT Oil

ANALYSIS	TEST METHOD	LOQ	SPECIFICATIONS	RESULTS	PASS/FAIL
Microbiological Examination					
Total Aerobic Count	Chromogenic Plates	40 CFU/gm	100,000 CFU/gm	ND	PASS
Total Enterobacteriaceae		40 CFU/gm	1,000 CFU/gm	ND	PASS
Total Coliforms		40 CFU/gm	1,000 CFU/gm	ND	PASS
Salmonella		40 CFU/gm	Absent	Absent	PASS
Yeast & Mold		40 CFU/gm	10,000 CFU/gm	ND	PASS
E.coli		40 CFU/gm	Absent	Absent	PASS

TESTING FACILITY INFORMATION	SAMPLE INFORMATION
Sante Laboratories, LLC. 8201 East Riverside Drive, Suite 650 Austin, Texas 78744 USA	Sante Sample ID: 20A325 Receipt Date: 05/06/2020 Receipt Condition: Good Condition / 12:16 PM / C. SMITH Start Date: 05/06/2020

QUALITY ASSURANCE			
Signature: <u><i>Brian R Sloat</i></u> Brian R Sloat (May 10, 2020)	Date: <u>10 May 2020</u>	Name: <u>Brian R. Sloat, Ph.D.</u>	Title: <u>Quality Manager</u>

VERSION HISTORY		
Version	Effective Date	Summary of Changes
00	05/10/2020	Initial Release.

ADDITIONAL REPORT NOTES
Test method have been validated to meet regulatory standards. Samples are gravimetrically prepared using qualified balances that are calibrated annually by Mettler-Toledo using NIST-traceable weights. Verification of calibration is performed routinely (e.g. weekly) using NIST-traceable to ensure safe and accurate weighting processes between manufacture performed calibration. Individual balances have been assigned minimum weights taking into consideration the balance and environmental conditions to ensure weighting complies with acceptable tolerances. Unless otherwise specified, all QC samples performed within specifications established using validated test methods. Reported results refer exclusive to items tested and have been tested by Sante Laboratories, unless specified otherwise. Test analysis was performed by an ISO/IEC 17025:2017 accredited laboratory.

LEGEND KEY	
N/A: Not Applicable ND: Not Detected NMT: No More Than NLT: No Less Than LOD: Limit of Detection LOQ: Limit of Quantitation LFIR: Laboratory Failure Investigation Report RT: Retention Time RRT: Relative Retention Time USP: United States Pharmacopeia ID: Identification CV: Coefficient of Variation CFU: Colony Forming Units LR: Lot Release	LNCR: Laboratory Non-Conformance Report RP-UHPLC-DAD: Reverse Phase Ultra High-Performance Liquid Chromatography with Diode Array Detector MS/MS: Mass Spectroscopy (Quadrupole) PPM: Parts Per Million PPB: Parts Per Billion DLS: Dynamic Light Scattering MG: Milligrams G: Grams MCG: Micrograms NM: Nanometers PDI: Polydispersity Index ML: Milliliters ISO: International Organization for Standardization