

Cannabinoid Certificate of Analysis

ProVerde Laboratories
420 Fortune Blvd
Milford, MA 01757



Product Name:	Topical-Psorian
Product Batch:	PS00104PH
Certificate ID Number:	65864
Date Tested:	09/25/2019

Cannabinoid Profile & Potency	
D9-THC	<LOQmg/jar
CBD	142.66mg/jar
CBC	5.67mg/jar
Total Counts:	mg to jar
Total THC	<LOQmg/jar
Total CBD	142.66mg/jar

** Total CBD count 2oz jar is: 142.66mg CBD**

Manufactured by: Palmetto Synergistic Research
Manufacture Date: 09/25/2019

Terpene Profile:	Please see the full lab for multiple Terpene profiles
Elemental Analysis	Pass
Microbiological Contaminants	Pass
Pathogenic Bacterial Contaminants	Pass
Mycotoxin Testing:	Pass
Pesticide Analysis	Pass
Analysis of Volatile Organic Compounds	Pass

Quality Approval		
Prepared By/Date	Approved By/Date	Status
<i>Judy Ghanem</i> *Digitally signed. 09/25/2019	<i>Janel Ralph</i> *Digitally signed. 09/25/2019	Pass

This Palmetto Harmony™ product has been reviewed by ProVerde. With the conclusion of the lab results, the product has met all product specifications, and is available to the public. The product contains less than 0.3% THC per the Farm Bill of 2018.

*This product is not intended to diagnose, treat, cure, or prevent any disease. The FDA has been evaluated this product. *

Certificate ID: **65862**

 Received: **9/25/19**

 Scan QR Code
 for authenticity

Palmetto Synergistic Research LLC

 Client Sample ID: **Topical 1**
8856 Pee Dee Hwy.

 Lot Number: **Batch CA00102PH**
Conway, SC 29527

 Matrix: **Topicals - Salve**
Attn: Dasha Stevens

Authorization:

Jon Podgorni, Lead Research Chemist

Signature:

Date:

10/9/2019



The data contained within this report was collected in accordance with the requirements of ISO/IEC 17025:2017. I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the test article listed in this report. Reports may not be reproduced except in their entirety.

CN: Cannabinoid Profile & Potency [WI-10-17 & WI-10-17-01]

 Analyst: *JSG*

 Test Date: *10/1/2019*

The client sample was analyzed for plant-based cannabinoids by Liquid Chromatography (LC). The collected data was compared to data collected for certified reference standards at known concentrations. Cannabinoid data based on a 2oz jar as supplied by the manufacturer.

65862-CN

ID	Weight %	Concentration (mg/Jar)		
D9-THC	0.01	5.84		
THCV	ND	ND		
CBD	0.23	129.84		
CBDV	ND	ND		
CBG	ND	ND		
CBC	<0.01	<LOQ		
CBN	ND	ND		
THCA	ND	ND		
CBDA	ND	ND		
CBGA	ND	ND		
D8-THC	ND	ND		
exo-THC	ND	ND		
Total	0.25	140.45	0%	Cannabinoids (wt%) 0.2%
Max THC	0.01	5.84		
Max CBD	0.23	129.84		

Ratio of Total CBD to THC 22.2:1

Limit of Quantitation (LOQ) = 0.009 wt%

Max THC (and Max CBD) are calculated values for total cannabinoids after heating, assuming complete decarboxylation of the acid to the neutral form. It is calculated based on the weight loss of the acid group during decarboxylation: Max THC = (0.877 x THCA) + THC. This calculation does not include other cannabinoid isomers (eg. D8-THC and exo-THC). ND = None detected above the limits of detection (LOD), which is half of LOQ.

EA: Elemental Analysis [WI-10-13]

Analyst: JFD

Test Date: 10/3/2019

This test method was performed in accordance with the requirements of ISO/IEC 17025. These results relate only to the test article listed in this report. Reports may not be reproduced except in their entirety.

65862-EA

Symbol	Metal	Conc. ¹ (µg/kg)	RL (µg/kg)	Limits ² (µg/kg)	Status
Al	Aluminum	76	50	-	
As	Arsenic	ND	50	1,500	PASS
Cd	Cadmium	ND	50	500	PASS
Ca	Calcium	ND	500	-	
Cr	Chromium	ND	50	1,100,000	PASS
Co	Cobalt	ND	50	5,000	PASS
Cu	Copper	ND	50	300,000	PASS
Fe	Iron	487	50	-	
Pb	Lead	ND	50	500	PASS
Mg	Magnesium	1,459	50	-	
Mn	Manganese	ND	50	-	
Hg	Mercury	ND	50	3,000	PASS
Mo	Molybdenum	ND	50	300,000	PASS
Ni	Nickel	107	50	20,000	PASS
P	Phosphorus	2,397	500	-	
K	Potassium	ND	500	-	
Se	Selenium	ND	50	-	
Ag	Silver	ND	50	15,000	PASS
S	Sulfur	ND	500	-	
Sn	Tin	931	500	600,000	PASS
Zn	Zinc	ND	50	-	

1) ND = None detected to the Method Detection Limit (MDL)

2) USP recommended maximum daily limits for oral drug product.

MB1: Microbiological Contaminants [WI-10-09]

Analyst: MJC

Test Date: 10/2/2019

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65862-MB1

Symbol	Analysis	Results	Units	Limits*	Status
AC	Total Aerobic Bacterial Count	<100	CFU/g	100,000 CFU/g	PASS
CC	Total Coliform Bacterial Count	<100	CFU/g	1,000 CFU/g	PASS
EB	Total Bile Tolerant Gram Negative Count	<100	CFU/g	1,000 CFU/g	PASS
YM	Total Yeast & Mold	<100	CFU/g	10,000 CFU/g	PASS

Note: All recorded Microbiological tests are within the established limits.

MB2: Pathogenic Bacterial Contaminants [WI-10-10]

Analyst: LabAdmin

Test Date: 10/3/2019

This test method was performed in accordance with the requirements of ISO/IEC 17025. These results relate only to the test article listed in this report. Reports may not be reproduced except in their entirety.

65862-MB2

Test ID	Analysis	Results	Units	Limits*	Status
65862-ECPT	E. coli (O157)	Negative	NA	Non Detected	PASS
65862-SPT	Salmonella	Negative	NA	Non Detected	PASS

Note: All recorded pathogenic bacteria tests passed.

MY: Mycotoxin Testing [WI-10-05]

Analyst: AKR

Test Date: 10/4/2019

This test method was performed in accordance with the requirements of ISO/IEC 17025. These results relate only to the test article listed in this report. Reports may not be reproduced except in their entirety.

65862-MY

Test ID	Date	Results	MDL	Limits	Status*
Total Aflatoxin	10/4/2019	< MDL	2 ppb	< 20 ppb	PASS
Total Ochratoxin	10/4/2019	< MDL	3 ppb	< 20 ppb	PASS

PST: Pesticide Analysis [WI-10-11]

Analyst: RAS

Test Date: 10/9/2019

The client sample was analyzed for pesticides using Liquid Chromatography with Mass Spectrometric detection (LC/MS/MS). The method used for sample prep was based on the European method for pesticide analysis (EN 15662).

65862-PST

Analyte	CAS	Result	Units	LLD	Limits (ppb)	Status
Abamectin	71751-41-2	ND	ppb	0.2	300	PASS
Azoxystrobin	131860-33-8	ND	ppb	0.10	40000	PASS
Bifenazate	149877-41-8	ND	ppb	0.10	5000	PASS
Bifenthrin	82657-04-3	ND	ppb	0.20	500	PASS
Cyfluthrin	68359-37-5	ND	ppb	0.50	1000	PASS
Daminozide	1596-84-5	ND	ppb	10.00	10	*
Etoxazole	153233-91-1	ND	ppb	0.10	1500	PASS
Fenoxycarb	72490-01-8	ND	ppb	0.10	10	PASS
Imazalil	35554-44-0	ND	ppb	0.10	10	PASS
Imidacloprid	138261-41-3	ND	ppb	0.10	3000	PASS
Myclobutanil	88671-89-0	ND	ppb	0.10	9000	PASS
Paclobutrazol	76738-62-0	ND	ppb	0.10	10	PASS
Piperonyl butoxide	51-03-6	ND	ppb	0.10	8000	PASS
Pyrethrin	8003-34-7	ND	ppb	0.1	1000	PASS
Spinosad	168316-95-8	ND	ppb	0.1	3000	PASS
Spiromesifen	283594-90-1	ND	ppb	0.10	12000	PASS
Spirotetramat	203313-25-1	ND	ppb	0.10	13000	PASS
Trifloxystrobin	141517-21-7	ND	ppb	0.10	30000	PASS

* Testing limits for ingestion established by the State of California: CCR, Title 16, Division 42, Chapter 5, Section 5313. ND indicates "none detected" above the lower limit of detection (LLD). Analytes marked with (*) indicate analytes for which no recovery was observed for a pre-spiked matrix sample.

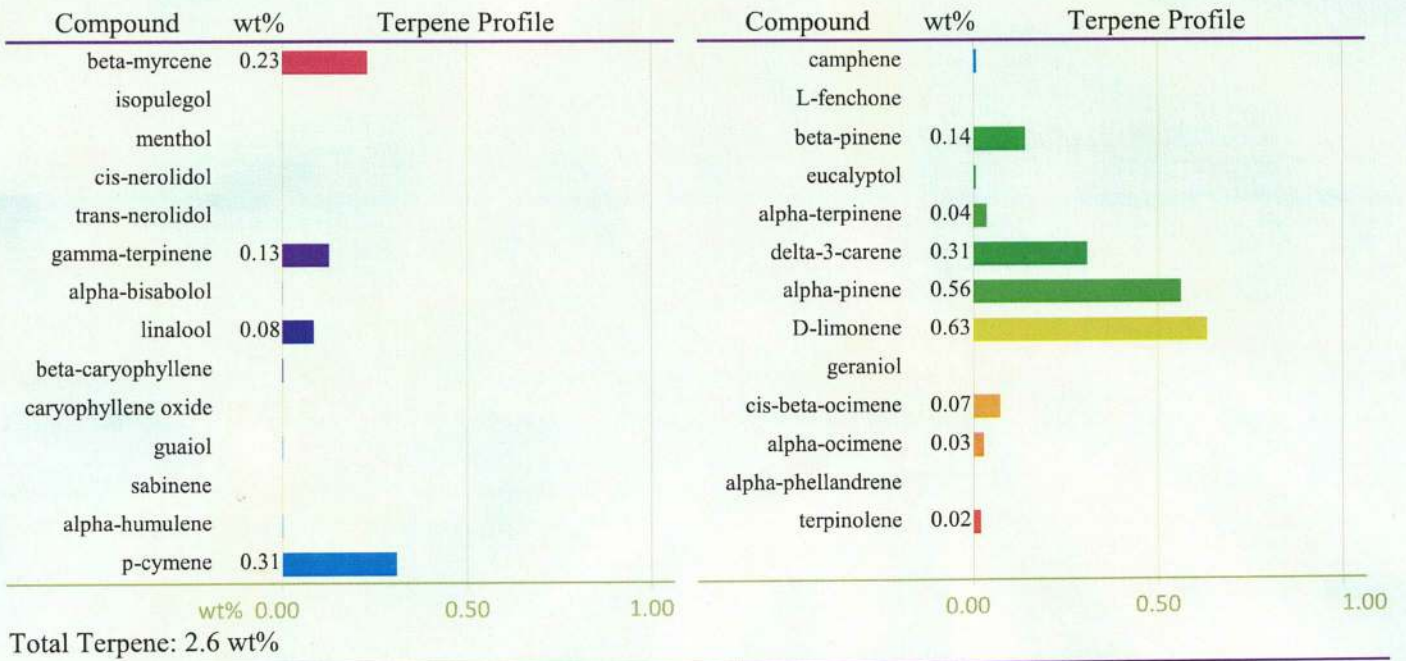
TP: Terpenes Profile [WI-10-27]

Analyst: CMA

Test Date: 10/3/2019

The client sample was analyzed by Head-Space Gas Chromatography (HS-GC). The collected data was compared to data collected for certified reference standards at known concentrations. All values are semiquantitative estimates based on recorded peak areas relative to terpene calibration data.

65862-TP



VC: Analysis of Volatile Organic Compounds [WI-10-28]

Analyst: CMA

Test Date: 10/2/2019

The client sample was analyzed by Head-Space Gas Chromatography (HS-GC). The collected data was compared to data collected for certified reference standards at known concentrations.

65862-VC

Compound	CAS	Amount ¹	Limit ²	RL	Status
Propane	74-98-6	ND	1,000 ppm	100	PASS
Isobutane	75-28-5	ND	1,000 ppm	100	PASS
Butane	106-97-8	ND	1,000 ppm	100	PASS
Methanol	67-56-1	ND	3,000 ppm	100	PASS
Pentane	109-66-0	ND	5,000 ppm	100	PASS
Ethanol	64-17-5	ND	5,000 ppm	100	*
Acetone	67-64-1	ND	5,000 ppm	100	PASS
Isopropanol	67-63-0	ND	5,000 ppm	100	PASS
Acetonitrile	75-05-8	ND	410 ppm	100	PASS
Hexane	110-54-3	ND	290 ppm	100	PASS
Heptane	142-82-5	ND	5,000 ppm	100	PASS

1) ND = Not detected at a level greater than the Reporting Limit (RL).

2) In ppm, based on USP recommended limits for residual solvents, adopted by the Massachusetts Department of Public Health for cannabis concentrates and extracts on 3/31/16. Butane/Propane limits are based on limits established for state of Colorado.

(*) For ethanol, as many formulations contain flavorings based on ethanol extracts of natural products, no status has been assigned.

END OF REPORT