



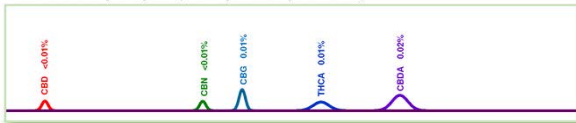
Test Certificate No.: 10696\_CN  
 Sample: Hemp Paper  
 Matrix: Paper

Customer: Paola Fernandez  
 JFC International & Co.  
 Rutherford, NJ  
 787-692-0025

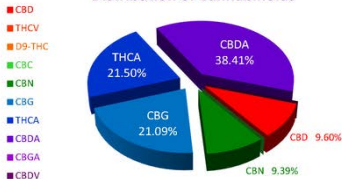
Date Received: 7/20/2016  
 Test Date: 7/20/2016  
 Technician: LA/JFD

**CANNABINOID PROFILE [Procedure WI-10-04]:**

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.


**Total Cannabinoids Measured**

Test	Weight %	Conc.
CBD	< 0.01%	0.05 mg/g
THCV	< 0.01%	< 0.10 mg/g
Δ9-THC	< 0.01%	< 0.10 mg/g
CBC	< 0.01%	< 0.10 mg/g
CBN	< 0.01%	0.05 mg/g
CBG	0.01%	0.10 mg/g
THCA	0.01%	0.10 mg/g
CBDA	0.02%	0.18 mg/g
CBGA	< 0.01%	< 0.10 mg/g
CBDV	< 0.01%	< 0.10 mg/g
Max THC	< 0.01%	0.09 mg/g
Max CBD	0.02%	0.21 mg/g
Total Active	0.02%	0.19 mg/g
<b>Total</b>	<b>0.05%</b>	<b>0.48 mg/g</b>

**Distribution of Cannabinoids**

**VISUAL AND MICROSCOPIC INSPECTION [Procedure WI-10-03]:**

Inspection Comments: None



ProVerde Laboratories, Inc.  
 420 Fortune Blvd.  
 Milford, MA 01757  
 617.221.3356

Christopher Hudalla, CSO

Date

7/24/2016

**Test Certificate No.:** 10696\_TP

**Sample:** Hemp Paper

**Matrix:** Paper

**Customer:** Paola Fernandez

JFC International &amp; Co.

Rutherford, NJ

787-692-0025

**Date Received:** 7/20/2016

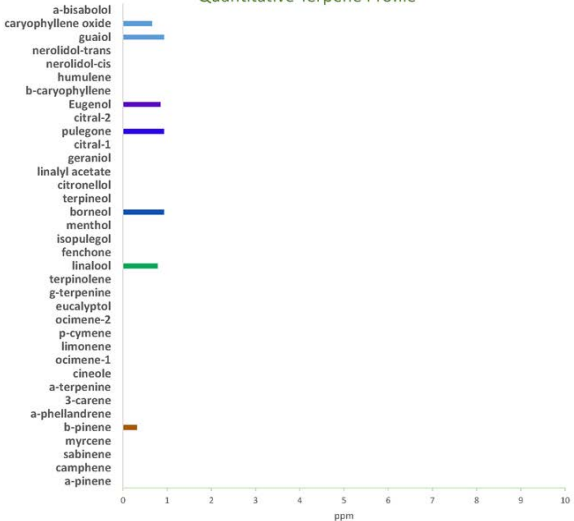
**Test Date:** 7/20/2016

**Technician:** JFD

**TERPENE PROFILE (Quantitative Profile)**

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.

## Quantitative Terpene Profile



ProVerde Laboratories, Inc. 420 Fortune Blvd. Milford, MA 01757 617.221.3356	<b>Authorization:</b> Christopher Hudalla, CSO	<b>Date</b>
	<b>Signature:</b> 	7/24/2016


**Test Certificate No.: 10696\_EA**
**Sample: Hemp Paper**
**Matrix: Paper**

Customer: JFC International &amp; Co.

Paola Fernandez

Rutherford, NJ

Date Received: 7/20/16

Test Date: 7/20/16

Technician: JFD

**ELEMENTAL ANALYSIS [ICP-MS]:**

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.

Metal	Symbol	Conc. <sup>1</sup> (µg/kg)	LLD (µg/kg)	Limits <sup>2</sup> (µg/kg)
Sodium	Na	305,891	0.050	-
Magnesium	Mg	271,394	0.050	-
Aluminum	Al	3,383	0.050	-
Silicon	Si	190,383	0.050	-
Phosphorus	P	333,207	0.050	-
Sulfur	S	122,571	0.050	-
Potassium	K	1,346,665	0.050	-
Calcium	Ca	1,683,267	0.050	-
Chromium	Cr	438.4	0.050	-
Manganese	Mn	12,351.8	0.050	-
Iron	Fe	55,548.9	0.050	-
Cobalt	Co	32.0	0.050	-
Nickel	Ni	1,410.7	0.050	-
Copper	Cu	6,703.3	0.050	-
Zinc	Zn	11,751	0.050	-
Gallium	Ga	1,221.2	0.050	-
Arsenic	As	49.7	0.012	200.0
Bromine	Br	3,624.0	0.050	-
Zirconium	Zr	69.7	0.050	-
Cadmium	Cd	49.5	0.001	200.0
Tin	Sn	64.9	0.050	-
Barium	Ba	4,620.9	0.050	-
Gold	Au	2.9	0.050	-
Mercury	Hg	6.5	0.014	100.0
Lead	Pb	209.8	0.002	500.0

1) ND = None detected to Lowest Limits of Detection (LLD)

2) MA Dept. of Public Health: Protocol for MMJ and MIPS, Exhibit 4(a) for all products.

ProVerde Laboratories, Inc. 420 Fortune Blvd. Milford, MA 01757 617.221.3356	Authorization: Christopher Hudalla, CSO	Date
	Signature: <i>Christopher Hudalla</i>	7/22/2016

Test Certificate No.: 10696\_VC  
 Sample: Hemp Paper  
 Matrix: Paper

Customer: Paola Fernandez  
 JFC International & Co.  
 Rutherford, NJ  
 787-692-0025

Date Received: 7/20/2016  
 Test Date: 7/20/2016  
 Technician: CJH

**VOLATILE ORGANIC SOLVENTS (VOCs)**

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.

Ret. Time [min]	Area [mV.s]	Amount [ppm]	Compound Name	Solvent Limits <sup>2</sup>
0.809	0.8	ND	propane	-
0.917	1.5	9.8	chloromethane	-
0.979	0.2	ND	butane	800
1.117	232.0	939.1	methanol	3000
1.748	1.6	ND	acetone	5000
1.795	3.0	6.9	isopropanol	5000
2.375	8.7	24.4	hexane	290
3.383	143.6	197.0	dichloroethane	-
3.483	15.5	21.3	heptane	5000

1) ND = None detected above 5 ppm.

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

ProVerde Laboratories, Inc. 420 Fortune Blvd. Milford, MA 01757 617.221.3356	Authorization: Christopher Hudalla, CSO	Date
	Signature: <i>Christopher Hudalla</i>	7/24/2016

**Test Certificate No.:** 10696-MB1

**Customer:** Paola Fernandez  
 JFC International & Co.  
 Rutherford, NJ  
 787-692-0025

**Date Received:** 7/20/2016  
**Test Date:** 07/22/2016  
**Technician:** MS

**Matrix:** Paper

***PATHOGENIC BACTERIA [VIDAS]: MB2***

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.

Label	Sample Name	Pathogen	Date	Tech	Result	Status
10696	Hemp Paper	<i>E. coli</i>	7/21/16	MS	Negative	No Pathogens Detected
10696	Hemp Paper	<i>Salmonella</i>	7/21/16	MS	Negative	No Pathogens Detected

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	<b>Signature:</b> <i>Christopher Hudalla</i>	7/25/2016

**Test Certificate No.: 10696-MY**

 Customer: Paola Fernandez  
 JFC International & Co.  
 Rutherford, NJ  
 787-692-0025

 Date Received: 7/20/2016  
 Test Date: 7/20/2016  
 Technician: AB

**Matrix: Paper**
Mycotoxin Screening: Aflatoxin [WI-10-05]

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.

ID	Sample	Afla Toxin	Afla Spec	Ochra Toxin	Ochra Spec	Status	Notes
10696	Hemp Paper	0.0	< 20 ppb	5.6	< 20 ppb	<b>PASS</b>	All contaminants within recommended limits

ProVerde Laboratories, Inc. 420 Fortune Blvd. Milford, MA 01757 617.221.3356	<b>Authorization:</b> Christopher Hudalla, CSO	<b>Date</b>
	<b>Signature:</b> <i>Christopher Hudalla</i>	7/23/2016

<b>Client:</b> JFC International & Co. 20 Franklin Pl Rutherford, NJ 07070 Attn: Paola Fernandez	<b>Sampling Location:</b> JFC	<b>Report Date:</b> 7/26/2016	<b>Order Number:</b> #2339	<b>Laboratory:</b> ProVerde Laboratories, Inc. 420 Fortune Blvd. Milford, MA 01757 617-221-3356
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Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received	Weight of Sample
#10696	Hemp paper	Paper	7/20/16	7/20/16	1 bag

**Case Narrative:**

Sample was submitted at room temperature in a sealed bag. For the pesticide analysis, some of the pesticides evaluated were not recovered from a spiked matrix sample. The recorded level of spinosad exceeds the limit established by the State of Massachusetts for cannabis-based consumable products. The same level would be within the limits established by the EPA for Crop Group 19 and hops (1,700 ppb for spinosad).

**Sample Submission and Testing Requested:**

The client sample of Hemp paper (Paper, 1 bag) was submitted on 7/20/16. The testing requested is summarized in Table 1 below:

**Table 1.**

Test Request	Code	Procedure	Analytes teste
Pesticide Residue	PS	WI-10-11	Pesticide analysis by LC/MS/MS

**Pesticide Residue [Procedure WI-10-11]**
**Analyst: LA**
**Test Date: 7/20/16**

A sample of Hemp paper 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).

**10696-PS**

Analyte	CAS	Result	Unit	LLD (ppb)	Limit (ppb)	Status
Abamectin	71751-41-2	ND	ppb	0.20	10	*
Bifenazate	149877-41-8	0.2	ppb	0.01	10	PASS
Etoxazole	153233-91-1	ND	ppb	0.01	10	PASS
Fenoxycarb	72490-01-8	1.1	ppb	0.07	10	PASS
Imazalil	35554-44-0	ND	ppb	0.03	10	PASS
Imidacloprid	138261-41-3	3.9	ppb	0.06	10	PASS
Myclobutanil	88671-89-0	4.0	ppb	0.03	10	PASS
Spiromesifen	283594-90-1	ND	ppb	0.01	10	PASS
Spirotetramat	203313-25-1	7.6	ppb	0.01	10	PASS

Analyte	CAS	Result	Unit	LLD (ppb)	Limit (ppb)	Status
Trifloxystrobin	141517-21-7	ND	ppb	0.02	10	PASS
Spinosad	168316-95-8	112.5	ppb	0.01	10	FAIL
Acequinocyl	57960-19-7	ND	ppb	0.50	10	*
Bifenthrin	82657-04-03	ND	ppb	0.11	10	PASS
Chloromequat chloride	999-81-5	ND	ppb	0.09	10	*
Cyfluthrin	68359-37-5	ND	ppb	0.50	10	*
Daminozide	1596-84-5	ND	ppb	10.00	10	*
Paclobutrazol	76738-62-0	ND	ppb	0.05	10	PASS
Pyrethrins	8003-34-7	ND	ppb	0.06	10	PASS

\*Testing limits established by the Massachusetts Department of Public Health, Protocol for Sampling and Analysis of Finished Medical Marijuana Products and Marijuana-Infused Products for Massachusetts Registered Medical Marijuana Dispensaries, Exhibit 5. ND indicates "none detected" above the 10ppb threshold. Analytes marked with (\*) indicate analytes for which no recovery was observed for a pre-spiked matrix sample. The recorded level of spinosad exceeds the limits established by the State of Massachusetts.