




Certificate ID: **68782**  
 Received: **10/23/19**  
 Client Sample ID: **PF Biomass sample 1**  
 Lot Number: **1**  
 Matrix: **Flowers/Bud - Dry Flower**



**Prospect Farms Industrial Hemp Group, LLC**  
**6 Partridge Rd**  
**Prospect, ME 04981**  
**Attn: Thomas Arters**

Authorization: <b>Scott Eaton, Lab Manager</b>	Signature: 	Date: <b>11/20/2019</b>
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The data contained within this report was collected in accordance with the requirements of ISO/IEC17025:2017. 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: *11/3/2019*

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.

**68782-CN**

ID	Weight %	Concentration (mg/g)		
D9-THC	0.06	0.60		
THCV	ND	ND		
CBD	0.57	5.73		
CBDV	ND	ND		
CBG	0.11	1.09		
CBC	0.05	0.55		
CBN	ND	ND		
THCA	0.46	4.63		
CBDA	14.96	149.61		
CBGA	0.43	4.28		
D8-THC	ND	ND		
exo-THC	ND	ND		
Total	16.65	166.48	0%	Cannabinoids (wt%) 15.0%
Max THC	0.47	4.66		
Max CBD	13.69	136.93		

**Ratio of Total CBD to THC 29.4:1**

Limit of Quantitation (LOQ) = 0.007 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: CJS

Test Date: 11/6/2019

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.

**68782-EA**

Symbol	Metal	Conc. <sup>1</sup> (µg/kg)	RL (µg/kg)	Limits <sup>2</sup> (µg/kg)	Status
Al	Aluminum	50,002	50	-	
As	Arsenic	ND	50	200	PASS
Cd	Cadmium	108	50	200	PASS
Ca	Calcium	1,369,604	500	-	
Cr	Chromium	122	50	300	PASS
Co	Cobalt	69	50	300	PASS
Cu	Copper	19,834	50	3,000	FAIL
Fe	Iron	205,555	50	-	
Pb	Lead	65	50	500	PASS
Mg	Magnesium	3,518,805	50	-	
Mn	Manganese	81,932	50	-	
Hg	Mercury	ND	50	100	PASS
Mo	Molybdenum	1,223	50	1,000	FAIL
Ni	Nickel	430	50	500	PASS
P	Phosphorus	ND	500	-	
K	Potassium	14,220,009	500	-	
Se	Selenium	ND	50	-	
Ag	Silver	ND	50	700	PASS
S	Sulfur	ND	500	-	
Sn	Tin	1,260	500	6,000	PASS
Zn	Zinc	54,069	50	-	

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

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

**MY: Mycotoxin Testing [WI-10-05]**

Analyst: AKR

Test Date: 10/31/2019

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.

**68782-MY**

Test ID	Date	Results	MDL	Limits	Status*
Total Aflatoxin	10/31/2019	< MDL	2 ppb	< 20 ppb	PASS
Total Ochratoxin	10/31/2019	< MDL	3 ppb	< 20 ppb	PASS

**PST: Pesticide Analysis [WI-10-11]**

Analyst: CJR

Test Date: 11/11/2019

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).

**68782-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
Paclotrazol	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

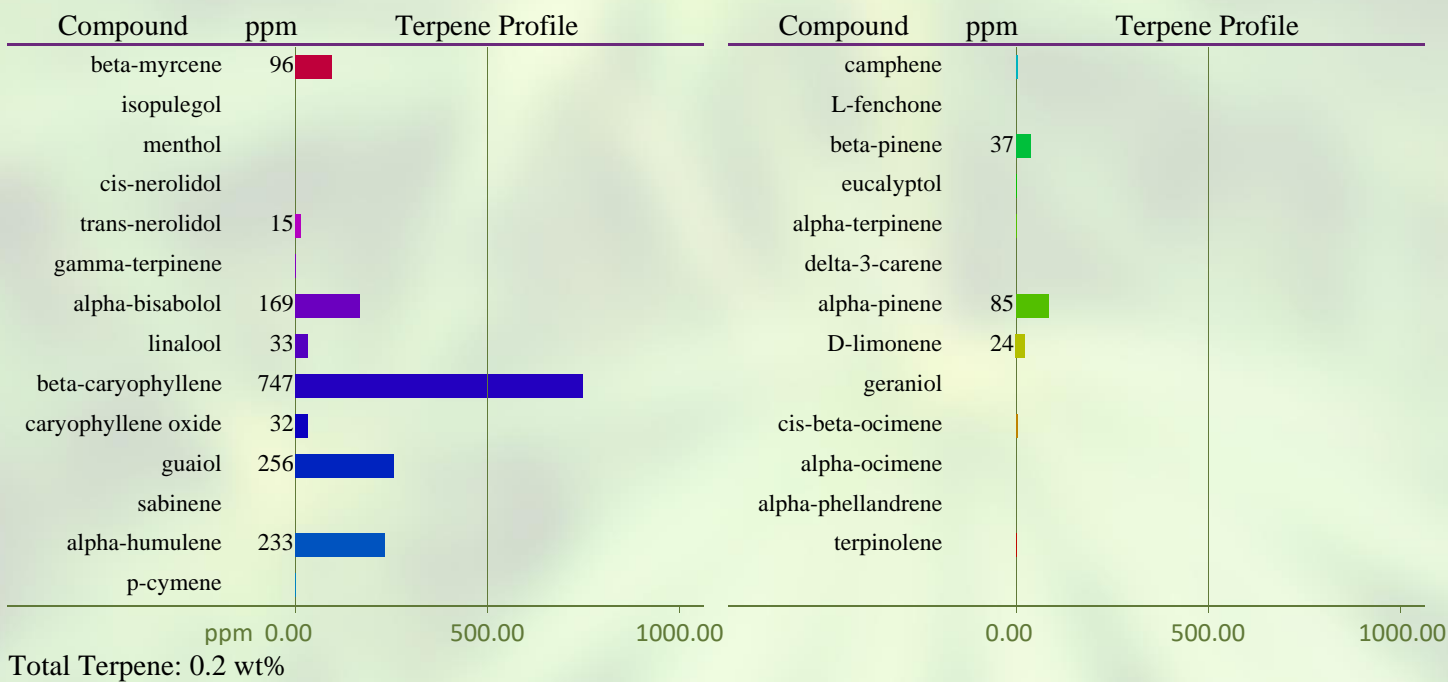
\* Testing limits for ingestion established by the State of California: CCR, Title 16, Division 42, Chapter 5, Section 5313. ND indicates "none detected" above the lower limit of detection (LLD). Analytes marked with (\*) indicate analytes for which no recovery was observed for a pre-spiked matrix sample.

**TP: Terpenes Profile [WI-10-27]**

Analyst: JR

Test Date: 10/30/2019

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.

**68782-TP****END OF REPORT**