



Certificate ID: **59321**

Received: **7/15/19**

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**Lux Botanics**

Client Sample ID: **Franny's 200mg Pet Spray**

**2131 US 70, Suite a**

Lot Number: **2**

**Swannanoa, NC 28778**

Matrix: **Tincture - Hemp Oil**

**Attn: Nathan TAYLOR**



Authorization: <b>Jon Podgorni, Lab Manager</b>	Signature: 	Date: <b>7/29/2019</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: **7/20/2019**

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.

**59321-CN**

ID	Weight %	Concentration (mg/mL)	
D9-THC	0.01	0.13	
THCV	ND	ND	
CBD	0.29	2.64	
CBDV	ND	ND	
CBG	ND	ND	
CBC	0.01	0.10	
CBN	ND	ND	
THCA	ND	ND	
CBDA	0.27	2.47	
CBGA	0.01	0.12	
D8-THC	ND	ND	
exo-THC	ND	ND	
<b>Total</b>	<b>0.60</b>	<b>5.46</b>	<b>0% Cannabinoids (wt%) 0.3%</b>
Max THC	0.01	0.13	
Max CBD	0.53	4.81	

**Ratio of Total CBD to THC 38.1:1**

Limit of Quantitation (LOQ) = 0.012 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 (LLD)

**EA: Elemental Analysis [WI-10-13]**

Analyst: JFD

Test Date: 7/19/2019

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**59321-EA**

Symbol	Metal	Conc. <sup>1</sup>	MDL	Limits <sup>2</sup>	Status
Al	Aluminum	356 ug/kg	5 ug/kg	-	
As	Arsenic	ND	4 ug/kg	150 ug/kg	PASS
Cd	Cadmium	ND	1 ug/kg	2500 ug/kg	PASS
Ca	Calcium	ND	500 ug/kg	-	
Cr	Chromium	ND	5 ug/kg	-	
Co	Cobalt	ND	10 ug/kg	-	
Cu	Copper	ND	500 ug/kg	100000 ug/kg	PASS
Fe	Iron	192 ug/kg	5 ug/kg	-	
Pb	Lead	3 ug/kg	2 ug/kg	500 ug/kg	PASS
Mg	Magnesium	ND	500 ug/kg	-	
Mn	Manganese	ND	500 ug/kg	-	
Hg	Mercury	ND	2 ug/kg	1500 ug/kg	PASS
Mo	Molybdenum	ND	50 ug/kg	10000 ug/kg	PASS
Ni	Nickel	ND	50 ug/kg	50000 ug/kg	PASS
P	Phosphorus	2,237 ug/kg	500 ug/kg	-	
K	Potassium	1,087 ug/kg	5 ug/kg	-	
Se	Selenium	ND	10 ug/kg	-	
Ag	Silver	ND	10 ug/kg	-	
S	Sulfur	4,521 ug/kg	5 ug/kg	-	
Sn	Tin	ND	5000 ug/kg	-	
Zn	Zinc	ND	5 ug/kg	-	

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

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

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

Analyst: AKR

Test Date: 7/17/2019

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**59321-MY**

Test ID	Date	Results	MDL	Limits	Status*
Total Aflatoxin	7/17/2019	< MDL	2 ppb	< 20 ppb	PASS
Total Ochratoxin	7/17/2019	< MDL	3 ppb	< 20 ppb	PASS

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

Analyst: RAS

Test Date: 7/22/2019

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).

**59321-PST**

Analyte	CAS	Result	Units	LLD	Limits (ppb)	Status
Abamectin B1a	65495-55-3	ND	ppb	0.20	300	PASS
Abamectin B1b	65195-56-4	ND	ppb	0.20	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.

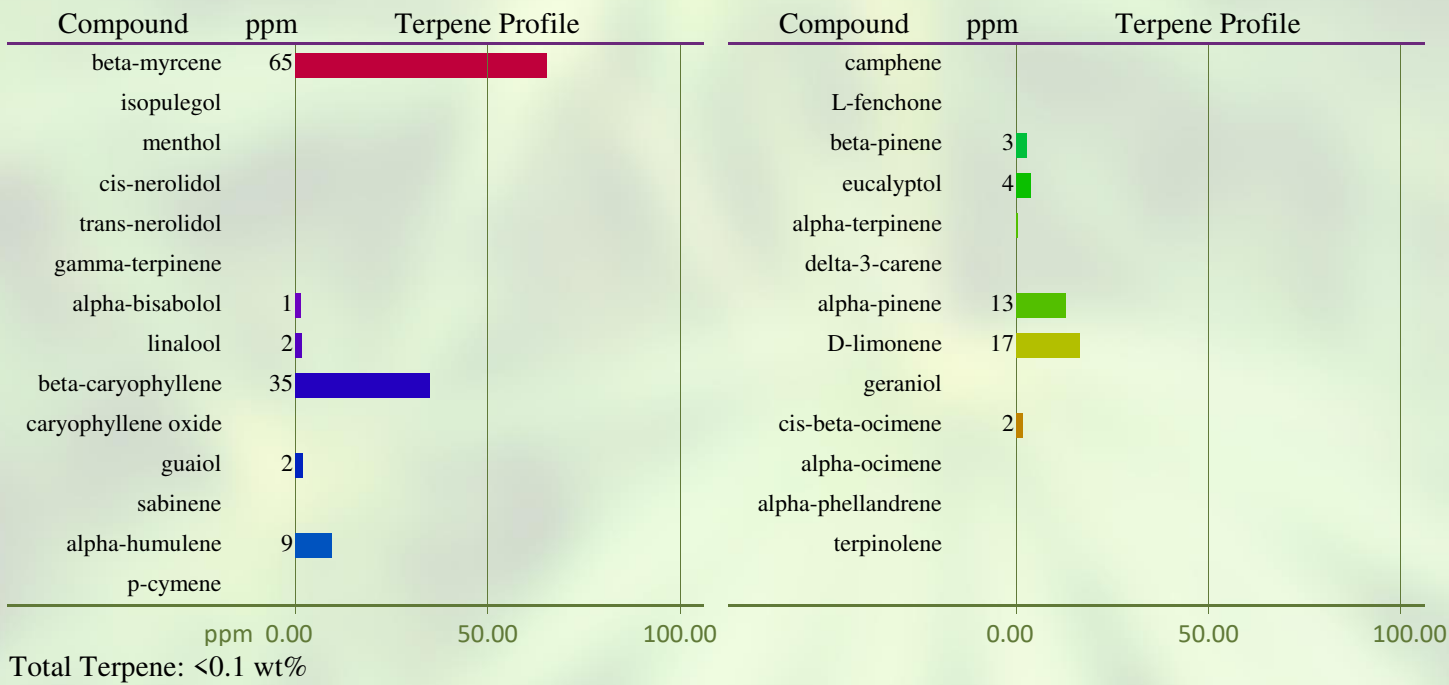
**TP: Terpenes Profile [WI-10-27]**

Analyst: CMA

Test Date: 7/18/2019

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.

**59321-TP**



**END OF REPORT**