


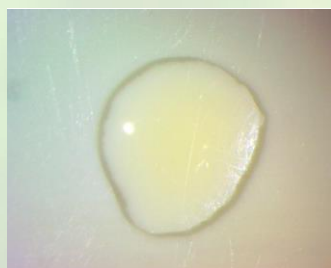
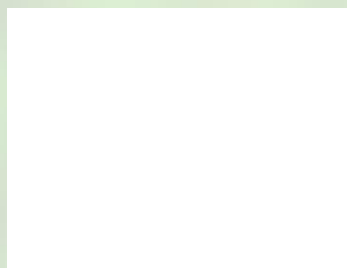
Certificate ID: **31112**  
 Client Sample ID: **Invictum Drops**  
 Matrix: **Topical - Salve**  
 Date Received: **5/23/2018**



**Balkan Health Care doo**  
**Temerinska 55**  
**Novi Sad, 21000**  
**Attn: Ana Prtain**

This test method was performed in accordance with the requirements of ISO/IEC 17025. The sample was provided to the laboratory by the client and tested as received. These results relate only to the test article listed in this report. Reports may not be reproduced except in their entirety.

Authorization: <b>Matthew Silva, Chemical Engineer</b>	Signature: 	Date: <b>6/6/2018</b>
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The data contained within this report was collected in accordance with the requirements of ISO/IEC 17025:2005. 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-10-04]

Analyst: RAS

Test Date: 6/6/2018

The client sample was analyzed for plant-based cannabinoids by Convergence Chromatography (CC). The collected data was compared to data collected for certified reference standards at known concentrations.

#### 31112-CN

ID	Weight %	Conc.	
<b>Δ9-THC</b>	<b>ND</b>	<b>ND</b>	
<b>THCV</b>	<b>ND</b>	<b>ND</b>	
<b>CBD</b>	5.47 wt %	51.66 mg/mL	
<b>CBDV</b>	1.32 wt %	12.50 mg/mL	
<b>CBG</b>	0.11 wt %	1.02 mg/mL	
<b>CBC</b>	<b>ND</b>	<b>ND</b>	
<b>CBN</b>	<b>ND</b>	<b>ND</b>	
<b>THCA</b>	<b>ND</b>	<b>ND</b>	
<b>CBDA</b>	0.08 wt %	0.72 mg/mL	
<b>CBGA</b>	<b>ND</b>	<b>ND</b>	
<b>Total</b>	<b>6.98 wt%</b>	<b>65.90 mg/mL</b>	<b>0% Cannabinoids (wt%) 5.5%</b>
<b>Max THC</b>	-	-	
<b>Max CBD</b>	<b>5.54 wt%</b>	<b>52.29 mg/mL</b>	

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. ND = None detected above the limits of detection (LLD)

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

Analyst: JFD

Test Date: 6/6/2018

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**31112-EA**

Symbol	Metal	Conc. <sup>1</sup>	MDL	Limits <sup>2</sup>	Status
Al	Aluminum	ND	5 ug/kg	-	
Cd	Cadmium	ND	1 ug/kg	1500 ug/kg	PASS
Ca	Calcium	ND	500 ug/kg	-	
Cr	Chromium	14 ug/kg	5 ug/kg	25000 ug/kg	PASS
Co	Cobalt	ND	10 ug/kg	-	
Cu	Copper	ND	500 ug/kg	100000 ug/kg	PASS
Fe	Iron	568 ug/kg	5 ug/kg	-	
Pb	Lead	ND	2 ug/kg	5000 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	5000 ug/kg	10000 ug/kg	PASS
Ni	Nickel	ND	500 ug/kg	1500 ug/kg	PASS
P	Phosphorus	3,351 ug/kg	500 ug/kg	-	
K	Potassium	ND	5 ug/kg	-	
Se	Selenium	ND	10 ug/kg	-	
Ag	Silver	ND	10 ug/kg	-	
S	Sulfur	ND	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 limits for Elemental Analysis.

**MB1: Microbiological Contaminants [WI-10-09]**

Analyst: Alyson

Test Date: 6/6/2018

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**31112-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.

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

Analyst: AR

Test Date: 6/6/2018

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.

**31112-MY**

Test ID	Date	Results	MDL	Limits	Status*
Total Aflatoxin	4/19/2018	< MDL	3 ppb	< 20 ppb	PASS
Total Ochratoxin	4/19/2018	4.3	2 ppb	< 20 ppb	PASS

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

Analyst: KSB

Test Date: 6/6/2018

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).

**29017-PST**

Analyte	CAS	Result	Units	LLD	Limits (ppb)	Status
Abamectin	71751-41-2	ND	ppb	0.20	20	PASS
Azoxystrobin	131860-33-8	ND	ppb	0.10	10	PASS
Bifenazate	149877-41-8	ND	ppb	0.10	100	PASS
Bifenthrin	82657-04-3	ND	ppb	0.20	10	PASS
Cyfluthrin	68359-37-5	ND	ppb	0.50	10	*
Daminozide	1596-84-5	ND	ppb	10.00	10	PASS
Dichlorvos	62-73-7	ND	ppb	3.00	20	*
Etoxazole	153233-91-1	ND	ppb	0.10	100	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	20	PASS
Myclobutanil	88671-89-0	ND	ppb	0.10	20	PASS
Paclobutrazol	76738-62-0	ND	ppb	0.10	10	PASS
Piperonyl butoxide	51-03-6	ND	ppb	0.10	3000	PASS
Pyrethrin	8003-34-7	ND	ppb	0.1	500	PASS
Spinosad	168316-95-8	ND	ppb	0.1	100	PASS
Spiromesifen	283594-90-1	ND	ppb	0.10	100	PASS
Spirotetramat	203313-25-1	ND	ppb	0.10	100	PASS
Trifloxystrobin	141517-21-7	2	ppb	0.10	100	PASS

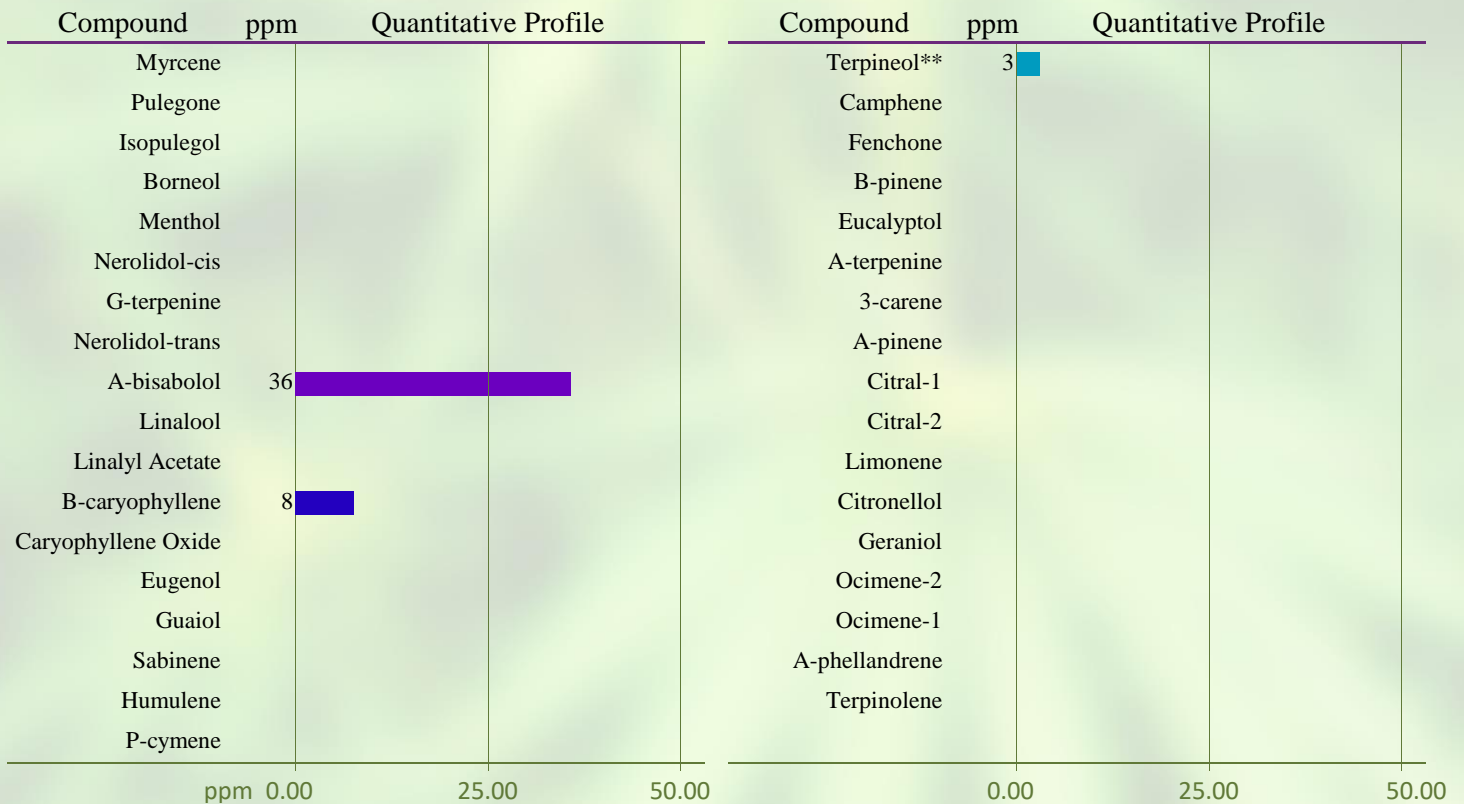
\* Testing limits established by the State of California: CCR, Title 16, Division 42, Chapter 5, Section 5313. ND indicates "none detected" above the lower limit of detection (LLD). Analytes marked with (\*) indicate analytes for which no recovery was observed for a pre-spiked matrix sample.

**TP: Terpenes Profile [W1-10-08]**

Analyst: CJH

Test Date: 6/6/2018

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.

**31112-TP**

Total Terpene: <0.1 wt%

\* Indicates qualitative calculation based on recorded peak areas.

**VC: Analysis of Volatile Organic Compounds [WI-10-07]**

Analyst: CJH

Test Date: 6/6/2018

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.

**31112-VC**

Compound	CAS	Amount <sup>1</sup>	Limit <sup>2</sup>	Status
Methanol	67-56-1	ND	3,000 ppm	PASS
Ethanol	64-17-5	ND	5,000 ppm	PASS
Acetone	67-64-1	9 ppm	5,000 ppm	PASS
Isopropanol	67-63-0	ND	5,000 ppm	PASS
Acetonitrile	75-05-8	ND	410 ppm	PASS
Hexane	110-54-3	ND	290 ppm	PASS

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.

**END OF REPORT**

*\*test performed for different label with producer authorization*