


Certificate ID: **24901**
 Client Sample ID: **Hemp extract with infused terpenes DEC2017**
 Matrix: **Concentrates/Extracts - CO2**
 Date Received: **1/30/2018**



Michael Matton
POB 1300
Sturbridge, MA 01566
Attn: Michael Matton

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: Chris Hudalla, Chief Science Officer	Signature: 	Date: 2/10/2018
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CN: Cannabinoid Profile & Potency [WI-10-04]

Analyst: CJH

Test Date: 2/10/2018

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.

24901-CN

0.23	-	61.83	0.40	0.06	0.11	-	0.06	2.21	-
Δ^9 -THC	THCV	CBD	CBDV	CBG	CBC	CBN	THCA	CBDA	CBGA

ID	Weight %	Conc.
Δ^9 -THC	0.23 wt %	2.32 mg/g
THCV	ND	ND
CBD	61.83 wt %	618.26 mg/g
CBDV	0.40 wt %	4.02 mg/g
CBG	0.06 wt %	0.64 mg/g
CBC	0.11 wt %	1.14 mg/g
CBN	ND	ND
THCA	0.06 wt %	0.61 mg/g
CBDA	2.21 wt %	22.08 mg/g
CBGA	ND	ND
Total	64.91 wt%	649.07 mg/g
Max THC	0.29 wt%	2.85 mg/g
Max CBD	63.76 wt%	637.63 mg/g



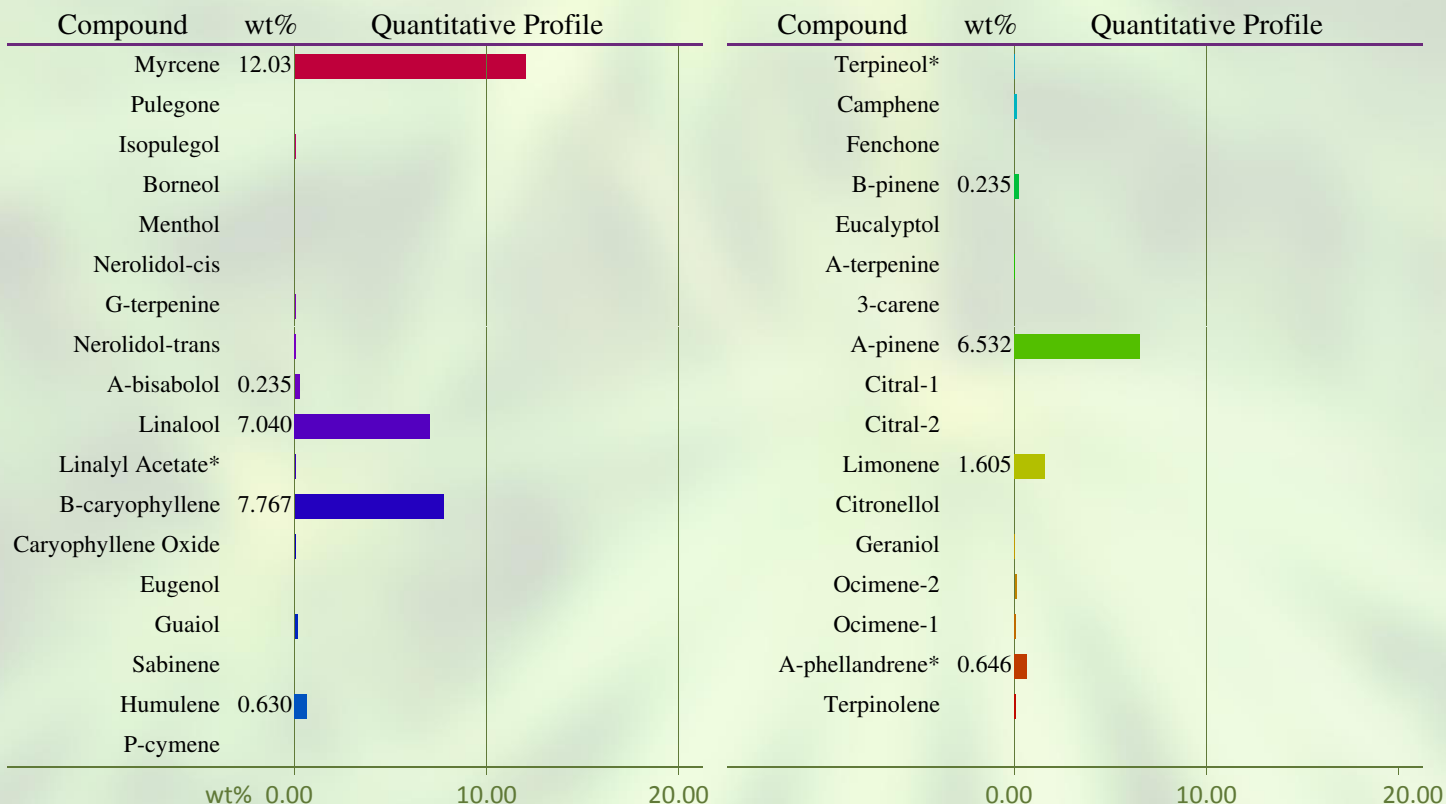
Max THC (and Max CBD) are calculated values for total cannabinoids after heating, assuming complete decarboxylation of the acid to the neutral form. It is calculated based on the weight loss of the acid group during decarboxylation: $\text{Max THC} = (0.877 \times \text{THCA}) + \text{THC}$. ND = None detected above the limits of detection (LLD)

TP: Terpenes Profile [W1-10-08]

Analyst: CJH

Test Date: 2/3/2018

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.

24901-TP

Total Terpene: 37.4 wt%

* Indicates qualitative calculation based on recorded peak areas.

END OF REPORT