

Certificate ID: **26562**

Client Sample ID: **CBD Oil 5%**

Matrix: **Concentrates/Extracts - CO2**

Date Received: **2/1/2018**



**Hempking Sp. z o.o.**  
**Grzybowska 87, 87**  
**Warszawa, PL 00-844**  
**Attn: Damian Ol?dzki**

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: Matthew Silva, Chemical Engineer	Signature: 	Date: 2/12/2018
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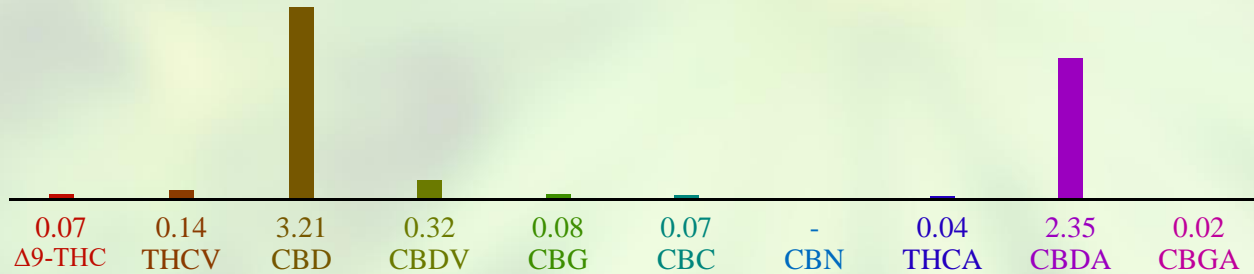
**CN: Cannabinoid Profile & Potency [WI-10-04]**

Analyst: *JDP*

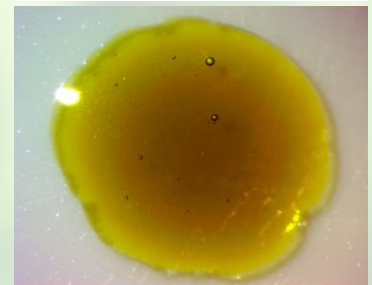
Test Date: *2/9/2018*

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.

**26562-CN**



ID	Weight %	Conc.
Δ9-THC	0.07 wt %	0.71 mg/mL
THCV	0.14 wt %	1.39 mg/mL
CBD	3.21 wt %	30.71 mg/mL
CBDV	0.32 wt %	3.04 mg/mL
CBG	0.08 wt %	0.75 mg/mL
CBC	0.07 wt %	0.67 mg/mL
CBN	0.01 wt %	0.09 mg/mL
THCA	0.04 wt %	0.40 mg/mL
CBDA	2.35 wt %	22.51 mg/mL
CBGA	0.02 wt %	0.17 mg/mL
Total	6.31 wt%	60.43 mg/mL
Max THC	0.11 wt%	1.07 mg/mL
Max CBD	5.27 wt%	50.44 mg/mL



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)

**HM: Heavy Metal Analysis [WI-10-13]**

Analyst: JFD

Test Date: 2/10/2018

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.

**26562-HM**

Symbol	Metal	Conc. <sup>1</sup>	Units	MDL	Use Limits <sup>2</sup>		Units	Status
					All	Ingestion		
As	Arsenic	ND	µg/kg	4	200	1500	µg/kg	PASS
Cd	Cadmium	1	µg/kg	1	200	500	µg/kg	PASS
Hg	Mercury	ND	µg/kg	2	100	1500	µg/kg	PASS
Pb	Lead	35	µg/kg	2	500	1000	µg/kg	PASS

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.

3)USP exposure limits based on daily oral dosing of 1g of concentrate for a 110 lb person.

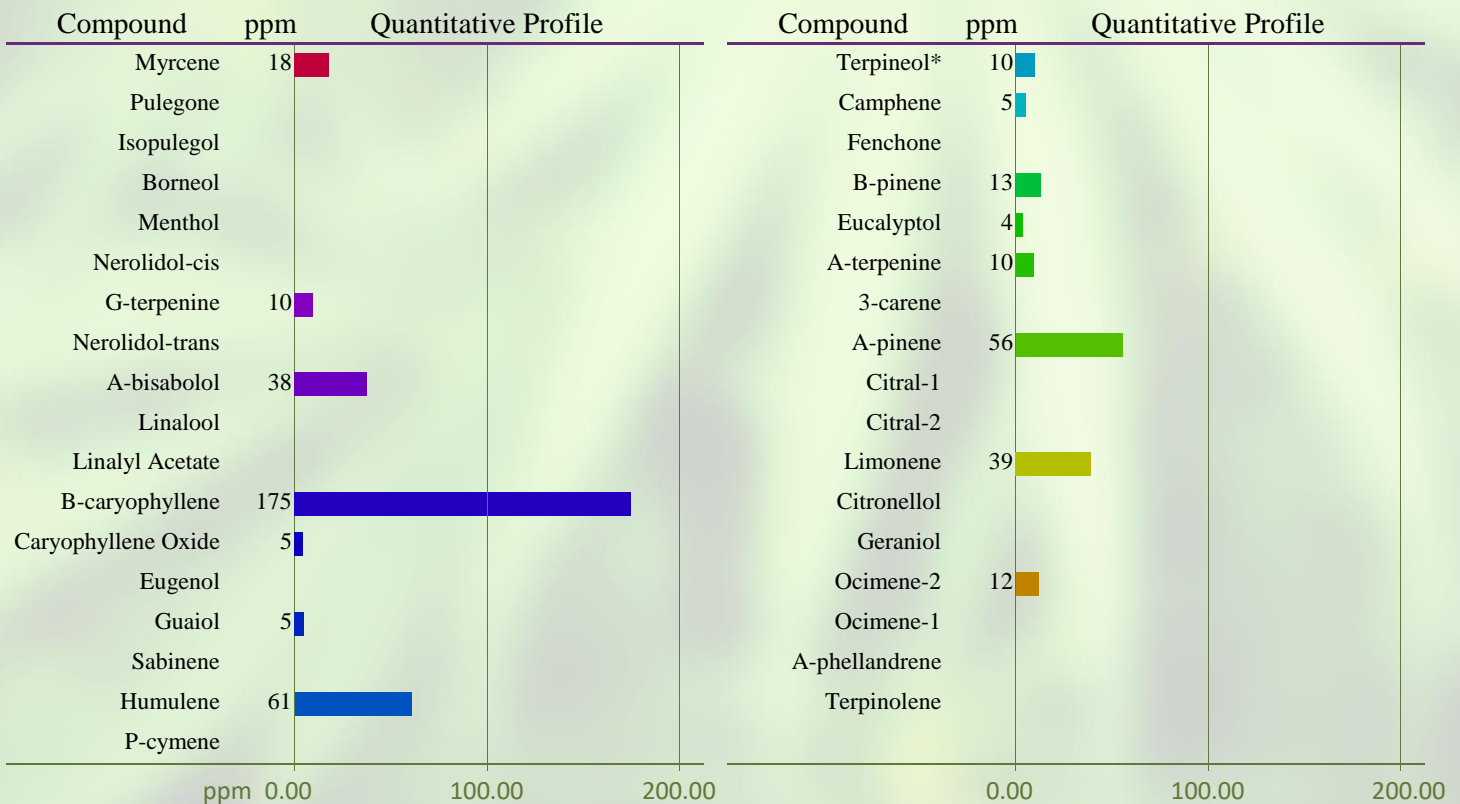
**TP: Terpenes Profile [WI-10-08]**

Analyst: CJH

Test Date: 2/8/2018

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.

**26562-TP**



Total Terpene: <0.1 wt%

\* Indicates qualitative calculation based on recorded peak areas.

**END OF REPORT**