

Certificate ID: **18010**
**Dutch Natural Healings**

 Client Sample ID: **CBD oil batch 10-10-135**

 Matrix: **Concentrates/Extracts - CO2**

 Date Received: **5/2/2017**
**Attn: Lars Opdam**

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.

Authorization: Matthew Silva, Chemical Engineer	Signature: 	Date: 5/4/2017
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**HM: Heavy Metal Analysis [WI-10-13]**

 Analyst: *JFD*

 Test Date: *5/3/2017*

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.

**18010-HM**

Symbol	Metal	Conc. <sup>1</sup>	Units	MDL	Use Limits <sup>2</sup>		Units	Status
					All	Ingestion		
As	Arsenic	46	µg/kg	4	200	1500	µg/kg	PASS
Cd	Cadmium	ND	µg/kg	1	200	500	µg/kg	PASS
Hg	Mercury	ND	µg/kg	2	100	1500	µg/kg	PASS
Pb	Lead	ND	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.

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

Analyst: KSB

Test Date: 5/3/2017

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).

**18010-PST**

Analyte	CAS	Result	Units	LLD	Limits (ppb)	Status
Abamectin	71751-41-2	ND	ppb	0.2	10	PASS
Acequinocyl	57960-19-7	ND	ppb	0.5	10	*
Bifenazate	149877-41-8	ND	ppb	0.01	10	PASS
Bifenthrin	82657-04-03	ND	ppb	0.11	10	PASS
Chlormequat chloride	999-81-5	ND	ppb	0.09	10	PASS
Cyfluthrin	68359-37-5	ND	ppb	0.5	10	*
Daminozide	1596-84-5	ND	ppb	10	10	PASS
Etoxazole	153233-91-1	ND	ppb	0.01	10	PASS
Fenoxycarb	72490-01-8	ND	ppb	0.07	10	PASS
Imazalil	35554-44-0	ND	ppb	0.03	10	PASS
Imidacloprid	138261-41-3	ND	ppb	0.06	10	PASS
Myclobutanil	88671-89-0	ND	ppb	0.03	10	PASS
Paclobutrazol	76738-62-0	ND	ppb	0.05	10	PASS
Pyrethrin	8003-34-7	ND	ppb	0.06	10	PASS
Spinosad	168316-95-8	ND	ppb	0.01	10	PASS
Spiromesifen	283594-90-1	ND	ppb	0.01	10	PASS
Spirotetramat	203313-25-1	ND	ppb	0.01	10	PASS
Trifloxystrobin	141517-21-7	ND	ppb	0.02	10	PASS

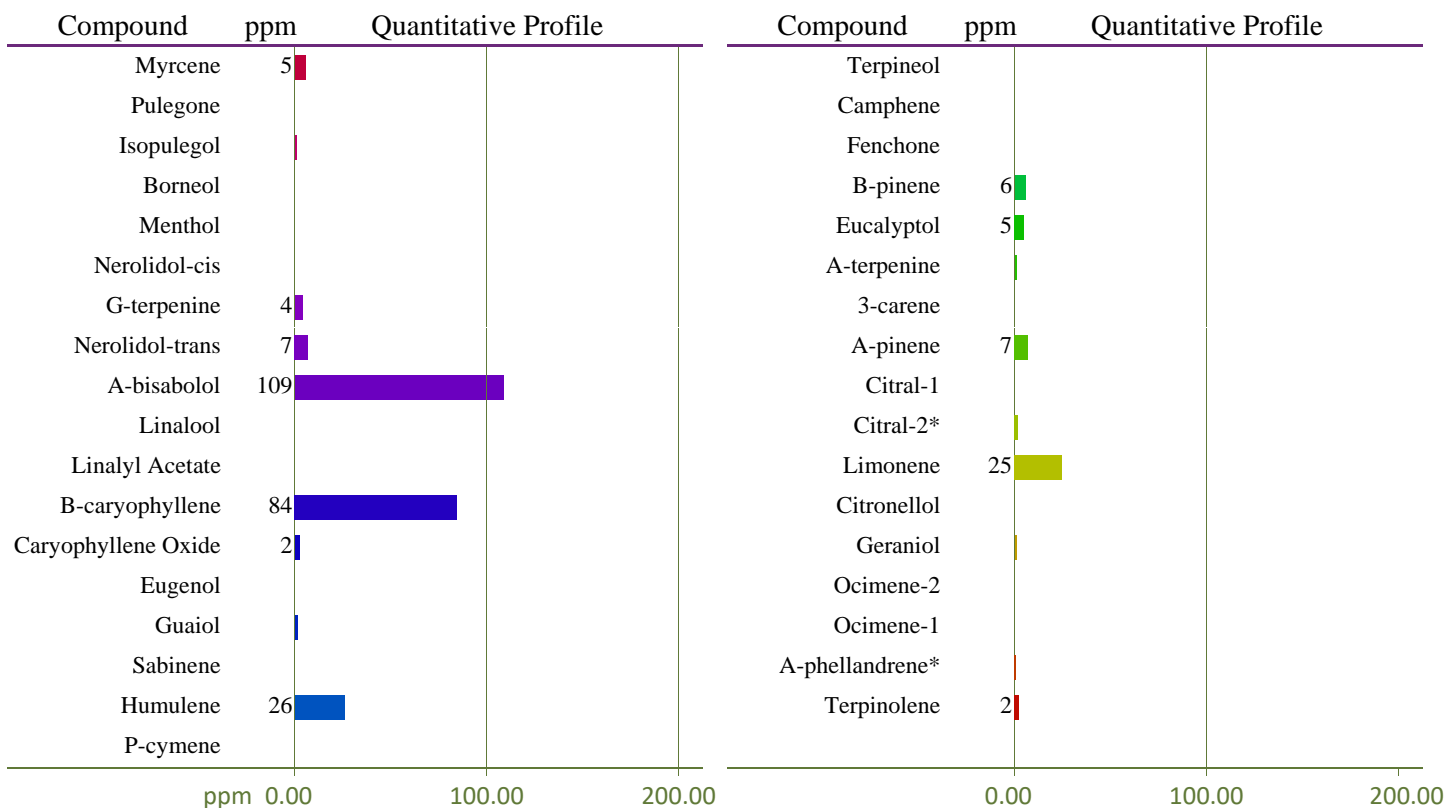
\* Testing limits established by the Massachusetts Department of Public Health, Protocol for Sampling and Analysis of Finished Medical Marijuana Products and Marijuana-Infused Products for Massachusetts Registered Medical Marijuana Dispensaries, Exhibit 5. ND indicates "none detected" above the 10ppb threshold. Analytes marked with (\*) indicate analytes for which no recovery was observed for a pre-spiked matrix sample.

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

Analyst: CJH

Test Date: 5/2/2017

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.

**18010-TP**

Total Terpene: &lt;0.1 wt%

\* Indicates qualitative calculation based on recorded peak areas.

**END OF REPORT**