

Certificate ID: **18047**
 Client Sample ID: **Medterra CBD Crystalline 1269**
 Matrix: **Concentrates/Extracts - CO2**
 Date Received: **5/8/2017**

Medterra CBD
95 NE 4th Ave, SUITE 100
Delray Beach, FL 33483
Attn: J.P. Larsen

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: Chris Hudalla, Chief Science Officer	Signature: 	Date: 5/16/2017
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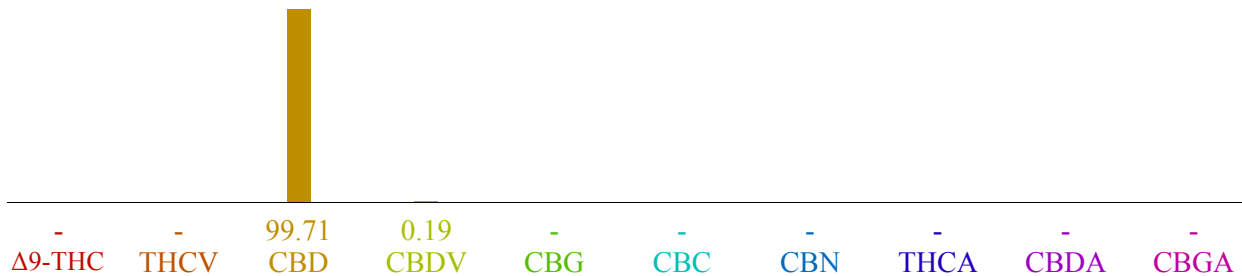
CN: Cannabinoid Profile & Potency [WI-10-04]

Analyst: JFD

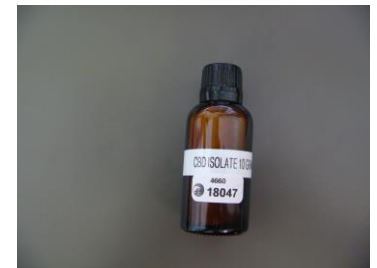
Test Date: 5/16/2017

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

18047-CN



ID	Weight %	Conc.
Δ 9-THC	-	-
THCV	-	-
CBD	99.71 wt %	997.10 mg/g
CBDV	0.19 wt %	1.85 mg/g
CBG	-	-
CBC	-	-
CBN	-	-
THCA	-	-
CBDA	-	-
CBGA	-	-
Total	99.90 wt%	998.95 mg/g
Max THC	-	-
Max CBD	99.71 wt%	997.10 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: $\text{Max THC} = (0.877 \times \text{THCA}) + \text{THC}$.

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

Analyst: JFD

Test Date: 5/11/2017

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18047-HM

Symbol	Metal	Conc. ¹	Units	MDL	Use Limits ²		Units	Status
					All	Ingestion		
As	Arsenic	ND	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.

MB1: Microbiological Contaminants [WI-10-09]

Analyst: MS

Test Date: 5/8/2017

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18047-MB1

Symbol	Analysis	Results	Units	Limits*	Status
AC	Total Aerobic Bacterial Count	<100	CFU/g	10,000 CFU/g	PASS
CC	Total Coliform Bacterial Count	<100	CFU/g	100 CFU/g	PASS
EB	Total Bile Tolerant Gram Negative Count	<100	CFU/g	100 CFU/g	PASS
YM	Total Yeast & Mold	<100	CFU/g	1,000 CFU/g	PASS

Note: All recorded Microbiological tests are within the established limits.

PST: Pesticide Analysis [WI-10-11]

Analyst: KSB

Test Date: 5/8/2017

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).

18047-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
Chloromequat chloride	999-81-5	ND	ppb	0.09	10	*
Cyfluthrin	68359-37-5	ND	ppb	0.5	10	*
Daminozide	1596-84-5	ND	ppb	10	10	*
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	*

* 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.

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

Analyst: CJH

Test Date: 5/8/2017

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.

18047-VC

Compound	CAS	Amount ¹	Limit ²	Status
Ethanol	64-17-5	ND	5,000 ppm	PASS
Acetone	67-64-1	ND	5,000 ppm	PASS
Isopropanol	67-63-0	ND	5,000 ppm	PASS
Heptane	142-82-5	ND	5,000 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