



Certificate ID: **89873**
 Received: **11/12/20**
 Client Sample ID: **500mg CBD Oil**
 Lot Number: **0225090902**
 Matrix: **Tincture/Infused Oil - MCT Oil**

Scan QR Code for authenticity



Nordic Oil
433 Broadway, Suite 209
New York, NY 10013
Attn: Khulan Gantumur

Authorization: Chris Hudalla, Chief Science Officer	Signature: 	Date: 12/13/2020
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The data contained within this report was collected in accordance with the requirements of ISO/IEC17025:2017. 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-10-17 & WI-10-17-01]

Analyst: JFD

Test Date: 12/3/2020

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

89873-CN

ID	Weight %	Concentration (mg/mL)			
D9-THC	ND	ND			
THCV	ND	ND			
CBD	2.21	21.1			
CBDV	ND	ND			
CBG	0.0902	0.861			
CBC	0.0132	0.126			
CBN	0.0366	0.349			
THCA	ND	ND			
CBDA	ND	ND			
CBGA	ND	ND			
D8-THC	ND	ND			
exo-THC	ND	ND			
Total	2.35	22.4	0%	Cannabinoids (wt%)	2.2%
Max THC	ND	ND		Limit of Quantitation (LOQ) = 0.0110 wt%	
Max CBD	2.21	21.1		Limit of Detection (LOD) = 0.0037 wt%	

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: $\text{Max THC} = (0.877 \times \text{THCA}) + \text{THC}$. This calculation does not include other cannabinoid isomers (eg. D8-THC and exo-THC). ND = None detected above the limits of detection (LOD), which is one third of LOQ.

MY: Mycotoxin Testing [WI-10-05]

Analyst: CJB

Test Date: 12/6/2020

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.

89873-MY

Test ID	Date	Results	MDL	Limits	Status*
Total Aflatoxin	12/6/2020	< MDL	2 ppb	< 20 ppb	PASS
Total Ochratoxin	12/6/2020	< MDL	3 ppb	< 20 ppb	PASS

TP: Terpenes Profile [WI-10-27]

Analyst: AEG

Test Date: 12/4/2020

Client sample analysis was performed using full evaporative technique (FET) headspace sample delivery and gas chromatographic (GC) compound separation. A combination of flame ionization detection (FID) and/or mass spectrometric (MS) detection with mass spectral confirmation against the National Institute of Standards and Technology (NIST) Mass Spectral Database, Revision 2017 were used. Chromatographic and/or mass spectral data were processed by quantitatively comparing the analytical peak areas against calibration curves prepared from certified reference standards.

89873-TP

Compound	CAS	Conc. (wt%)	Conc. (ppm)	Qualitative Profile	
alpha-pinene	80-56-8	0.0054	53.8		
camphene	79-92-5	<RL	<RL		
sabinene*	3387-41-5	ND	ND		
beta-myrcene	123-35-3	0.0164	164		
beta-pinene	127-91-3	0.0010	9.69		
alpha-phellandrene	99-83-2	ND	ND		
delta-3-carene	13466-78-9	ND	ND		
alpha-terpinene	99-86-5	ND	ND		
alpha-ocimene	502-99-8	<RL	<RL		
D-limonene	138-86-3	0.0053	52.8		
p-cymene	99-87-6	ND	ND		
cis-beta-ocimene	3338-55-4	0.0017	17.2		
eucalyptol	470-82-6	ND	ND		
gamma-terpinene	99-85-4	ND	ND		
terpinolene	586-62-9	ND	ND		
linalool	78-70-6	<RL	<RL		
L-fenchone*	7787-20-4	<RL	<RL		
isopulegol	89-79-2	ND	ND		
menthol*	89-78-1	ND	ND		
geraniol	106-24-1	ND	ND		
beta-caryophyllene	87-44-5	0.0018	18.1		
alpha-humulene	6753-98-6	<RL	<RL		
cis-nerolidol	3790-78-1	ND	ND		
trans-nerolidol	40716-66-3	ND	ND		
guaiol	489-86-1	ND	ND		
caryophyllene oxide	1139-30-6	ND	ND		
alpha-bisabolol	23089-26-1	ND	ND		

Total Terpene: <0.1 wt%

ppm 0.00 100.00 200.00

* Certified reference standard not available for this compound. Concentration is estimated using the response factor from alpha-pinene. ND = None Detected. RL = Reporting Limit of 5 ppm.

VC: Analysis of Volatile Organic Compounds [WI-10-28]

Analyst: AEG

Test Date: 12/7/2020

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.

89873-VC

Compound	CAS	Amount ¹	Limit ²	RL	Status
Propane	74-98-6	ND	1,000 ppm	100	PASS
Isobutane	75-28-5	ND	1,000 ppm	100	PASS
Butane	106-97-8	ND	1,000 ppm	100	PASS
Methanol	67-56-1	ND	3,000 ppm	100	PASS
Pentane	109-66-0	ND	5,000 ppm	100	PASS
Ethanol	64-17-5	ND	5,000 ppm	100	PASS
Acetone	67-64-1	ND	5,000 ppm	100	PASS
Isopropanol	67-63-0	237 ppm	5,000 ppm	100	PASS
Acetonitrile	75-05-8	ND	410 ppm	100	PASS
Hexane	110-54-3	ND	290 ppm	100	PASS
Heptane	142-82-5	ND	5,000 ppm	100	PASS

1) ND = Not detected at a level greater than the Reporting Limit (RL).

2) In ppm, based on USP recommended limits for residual solvents, adopted by the Massachusetts Department of Public Health for cannabis concentrates and extracts on 3/31/16. Butane/Propane limits are based on limits established for state of Colorado.

(*) For ethanol, as many formulations contain flavorings based on ethanol extracts of natural products, no status has been assigned.

END OF REPORT