



## **Certificate of Analysis**

Company: Vermont Organic Solutions Sample ID: 1000mg CBD oil

171 Route 5 North Lot: N/A Report Date: 12/22/2022

Norwich, VT 05055 Matrix: Oil Date Analyzed: 12/19/2022

Customer ID: 221205-0 Date Sampled: N/A Analyst: 050

Grower License #: MANU0014 Date Received: 12/5/2022 Report ID: C221205AJ

## **Cannabinoid Summary**

Cannabinoid Profile	LOQ (mg/g)	Concentration (mg/g)	Weight (%)
CBDVA	0.0005	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
CBDV	0.0012	0.25	0.02
CBDA	0.0008	5.96	0.60
CBGA	0.0008	0.13	0.01
CBG	0.0019	0.60	0.06
CBD	0.0019	32.78	3.28
THCV	0.0021	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
CBN	0.0013	0.23	0.02
Δ9-ΤΗС	0.0020	1.74	0.17
Δ8-ΤΗС	0.0019	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
THC-A	0.0034	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
СВС	0.0024	1.28	0.13
Total THC		1.74	0.17
Total CBD		38.00	3.80
Total Cannabinoids		42.97	4.30

Total THC Total CBD

4.3%

Total

Cannabinoids

0.17%

0.17%

Δ9-ΤΗС

3.8%

N/A

1:21.8

Percent Moisture THC : CBD Ratio

Cannabinoids Methodology: High Performance Liquid Chromatography (HPLC) using PerkinElmer FLEXAR™ with Photo Diode Array Detector (PDA)

Total CBD and total THC are calculated values, to account for assumed decarboxylation from the acid form (THCA or CBDA) to the neutral form, causing weight loss of the acid group. These values are calculated as follows:

LOQ = The lowest quantity that this method can reliably detect. Any cannabinoid that was not detected is assumed to be less than the stated LOQ (<LOQ).

All results reflect dry weight of material, based on % moisture of the sample.

Measurement of Uncertainty (MU): the parameter, associated with the result of a measurement, that characterizes the dispersion of the values that could reasonably be attributed to the particular quantity subject to measurement.  $\Delta 9$ -THC MU =  $\pm 0.005\%$  Total THC MU =  $\pm 0.007\%$ 

All other cannabinoid MU values are available upon request.

All moisture analysis is determined by loss-on-drying measurement using OHAUS Model MB90 Moisture Content Readers.

This report shall not be reproduced except in full without approval of the laboratory. This is to provide assurance that parts of a report are not taken out of context. Results apply to the *Certified by:* samples as received.



Luke E.M

Luke Emerson Mason (Laboratory Director, Bia Diagnostics)