



Certificate ID: **78892**

Received: **3/6/20**

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Monarch Botanicals

Client Sample ID: **1,000mg Sublingual Oil w/ Copaiba**



29 Loop Dr

Lot Number: **1018**

Hanover, PA 17331

Matrix: **Tincture/Infused Oil - MCT Oil**

Attn: Jennifer Crawford

Authorization: Jon Podgorni, Lead Research Chemist	Signature: 	Date: 3/11/2020
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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: *JDP*

Test Date: *3/9/2020*

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.

78892-CN

ID	Weight %	Concentration (mg/mL)		
D9-THC	ND	ND		
THCV	ND	ND		
CBD	4.34	40.39		
CBDV	0.02	0.18		
CBG	ND	ND		
CBC	ND	ND		
CBN	ND	ND		
THCA	ND	ND		
CBDA	ND	ND		
CBGA	ND	ND		
D8-THC	ND	ND		
exo-THC	ND	ND		
Total	4.36	40.57	0%	Cannabinoids (wt%) 4.3%
Max THC	ND	ND		
Max CBD	4.34	40.39		

Limit of Quantitation (LOQ) = 0.01 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: Max THC = (0.877 x THCA) + 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 half of LOQ.

END OF REPORT