Test Certificate

Certificate ID: **86551**

Received: 9/18/20

Client Sample ID: **CP S:F 1:1**Lot Number: **S19F20-0001**

Matrix: Tincture/Infused Oil - Hemp Seed Oil

Scan QR Code for authenticity HempTech Ireland

Bridge Meadows, Hollywood Glen Rd Donard, Co. Wicklow, WW W91Y880

Attn: Edward Hanbidge

Authorization:

Signature:

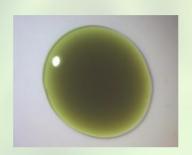
Chris Hudalla, Chief Science Officer

Christophen Hudalla

Date:

9/28/2020







80585

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: 9/25/2020

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.

86551-CN

ID	Weight %	Concentration (mg/mL)			
D9-THC	0.0719	0.658			
THCV	ND	ND			
CBD	0.233	2.13			
CBDV	ND	ND			
CBG	ND	ND			
CBC	0.0203	0.186			
CBN	ND	ND			
THCA	0.211	1.93			
CBDA	1.99	18.2			
CBGA	0.0750	0.686			
D8-THC	ND	ND			
exo-THC	ND	ND			
Total	2.60	23.8	0%	Cannabinoids (wt%)	2.0%
Max THC	0.257	2.35			
Max CBD	1.98	18.1			

Ratio of Total CBD to THC 7.7:1

Limit of Quantitation (LOQ) = 0.0115 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 one third of LOQ.

TP: Terpenes Profile [WI-10-27]

Analyst: CA

Test Date: 9/19/2020

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.

86551-TP

Compound	CAS	Conc. (wt%)	Conc. (ppm)	Qualitative Profile
alpha-pinene	80-56-8	0.0023	23.0	
camphene	79-92-5	ND	ND	
sabinene*	3387-41-5	0.0017	16.8	
beta-myrcene	123-35-3	0.0058	58.3	
beta-pinene	127-91-3	0.0013	13.0	
alpha-phellandrene	99-83-2	ND	ND	
delta-3-carene	13466-78-9	<rl< td=""><td><rl< td=""><td></td></rl<></td></rl<>	<rl< td=""><td></td></rl<>	
alpha-terpinene	99-86-5	<rl< td=""><td><rl< td=""><td></td></rl<></td></rl<>	<rl< td=""><td></td></rl<>	
alpha-ocimene	502-99-8	<rl< td=""><td><rl< td=""><td></td></rl<></td></rl<>	<rl< td=""><td></td></rl<>	
D-limonene	138-86-3	0.0009	8.77	
p-cymene	99-87-6	<rl< td=""><td><rl< td=""><td></td></rl<></td></rl<>	<rl< td=""><td></td></rl<>	
cis-beta-ocimene	3338-55-4	0.0029	29.4	
eucalyptol	470-82-6	<rl< td=""><td><rl< td=""><td></td></rl<></td></rl<>	<rl< td=""><td></td></rl<>	
gamma-terpinene	99-85-4	<rl< td=""><td><rl< td=""><td></td></rl<></td></rl<>	<rl< td=""><td></td></rl<>	
terpinolene	586-62-9	0.0023	23.3	
linalool	78-70-6	ND	ND	
L-fenchone*	7787-20-4	ND	ND	
isopulegol	89-79-2	ND	ND	
menthol*	89-78-1	<rl< td=""><td><rl< td=""><td></td></rl<></td></rl<>	<rl< td=""><td></td></rl<>	
geraniol	106-24-1	ND	ND	
beta-caryophyllene	87-44-5	0.0246	246	
alpha-humulene	6753-98-6	0.0046	45.7	
cis-nerolidol	3790-78-1	ND	ND	
trans-nerolidol	40716-66-3	<rl< td=""><td><rl< td=""><td></td></rl<></td></rl<>	<rl< td=""><td></td></rl<>	
guaiol	489-86-1	ND	ND	
caryophyllene oxide	1139-30-6	0.0013	13.4	
alpha-bisabolol	23089-26-1	<rl< td=""><td><rl< td=""><td></td></rl<></td></rl<>	<rl< td=""><td></td></rl<>	
			ppm (0.00 250.00 500.00

Total Terpene: <0.1 wt%

END OF REPORT

^{*} 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.