



Certificate ID: **86554**

Received: **9/18/20**

Scan QR Code for authenticity



HempTech Ireland

Bridge Meadows, Hollywood Glen Rd

Donard, Co. Wicklow, WW W91Y880

Attn: Edward Hanbidge

Client Sample ID: **F2020**

Lot Number: **F2020-1000**

Matrix: **Flowers/Bud - Dry Flower**

Authorization:

Chris Hudalla, Chief Science Officer

Signature:



Date:

9/28/2020



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: **9/24/2020**

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.

86554-CN

ID	Weight %	Concentration (mg/g)	
D9-THC	0.0170	0.170	
THCV	ND	ND	
CBD	0.0902	0.902	
CBDV	ND	ND	
CBG	ND	ND	
CBC	0.0086	0.0860	
CBN	ND	ND	
THCA	0.0793	0.793	
CBDA	1.19	11.9	
CBGA	0.0441	0.441	
D8-THC	ND	ND	
exo-THC	ND	ND	
Total	1.43	14.3	0% Cannabinoids (wt%) 1.2%
Max THC	0.0865	0.865	
Max CBD	1.14	11.4	

Ratio of Total CBD to THC 13.1:1

Limit of Quantitation (LOQ) = 0.0067 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.

86554-TP

Compound	CAS	Conc. (wt%)	Conc. (ppm)	Qualitative Profile
alpha-pinene	80-56-8	0.0031	30.6	
camphene	79-92-5	ND	ND	
sabinene*	3387-41-5	0.0014	13.6	
beta-myrcene	123-35-3	0.0026	26.1	
beta-pinene	127-91-3	0.0010	9.86	
alpha-phellandrene	99-83-2	<RL	<RL	
delta-3-carene	13466-78-9	ND	ND	
alpha-terpinene	99-86-5	0.0007	6.91	
alpha-ocimene	502-99-8	<RL	<RL	
D-limonene	138-86-3	<RL	<RL	
p-cymene	99-87-6	<RL	<RL	
cis-beta-ocimene	3338-55-4	0.0023	22.7	
eucalyptol	470-82-6	<RL	<RL	
gamma-terpinene	99-85-4	0.0009	8.66	
terpinolene	586-62-9	0.0007	7.29	
linalool	78-70-6	<RL	<RL	
L-fenchone*	7787-20-4	ND	ND	
isopulegol	89-79-2	ND	ND	
menthol*	89-78-1	ND	ND	
geraniol	106-24-1	ND	ND	
beta-caryophyllene	87-44-5	0.0318	318	
alpha-humulene	6753-98-6	0.0072	71.6	
cis-nerolidol	3790-78-1	ND	ND	
trans-nerolidol	40716-66-3	0.0007	6.82	
guaial	489-86-1	ND	ND	
caryophyllene oxide	1139-30-6	0.0043	42.6	
alpha-bisabolol	23089-26-1	0.0012	12.3	

Total Terpene: 0.1 wt%

* 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.

END OF REPORT