



Certificate ID: **90283-159**

Received: **11/30/20**

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Client Sample ID: **STG14-03**

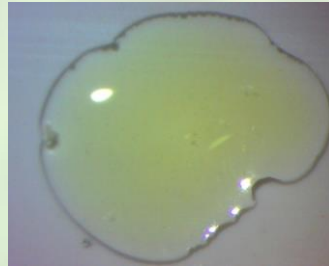
Lot Number: **STG14-03**

Matrix: **Tincture/Infused Oil - Hemp Seed Oil**

STIGMA

HEMP COMPANY

Authorization: Chris Hudalla, Chief Science Officer	Signature: 	Date: 12/18/2020
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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: *12/4/2020*

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.

90283-CN

ID	Weight %	Concentration (mg/mL)		
D9-THC	0.0154	0.142		
THCV	ND	ND		
CBD	2.51	23.2		
CBDV	ND	ND		
CBG	ND	ND		
CBC	0.0302	0.279		
CBN	ND	ND		
THCA	ND	ND		
CBDA	ND	ND		
CBGA	ND	ND		
D8-THC	ND	ND		
exo-THC	ND	ND		
Total	2.56	23.7	0%	Cannabinoids (wt%) 2.5%
Max THC	0.0154	0.142		Limit of Quantitation (LOQ) = 0.0114 wt%
Max CBD	2.51	23.3		Limit of Detection (LOD) = 0.0038 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: AEG

Test Date: 12/12/2020

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.

90283-TP

Compound	CAS	Conc. (wt%)	Conc. (ppm)	Qualitative Profile
alpha-pinene	80-56-8	0.0262	262	
camphene	79-92-5	0.0008	8.20	
sabinene*	3387-41-5	0.0140	140	
beta-myrcene	123-35-3	0.0309	309	
beta-pinene	127-91-3	0.0381	381	
alpha-phellandrene	99-83-2	ND	ND	
delta-3-carene	13466-78-9	0.0019	19.4	
alpha-terpinene	99-86-5	0.0007	7.11	
alpha-ocimene	502-99-8	0.0022	22.3	
D-limonene	138-86-3	0.315	3,150	
p-cymene	99-87-6	0.0128	128	
cis-beta-ocimene	3338-55-4	0.0045	45.4	
eucalyptol	470-82-6	0.141	1,410	
gamma-terpinene	99-85-4	0.0095	94.8	
terpinolene	586-62-9	0.0015	15.4	
linalool	78-70-6	0.0033	32.5	
L-fenchone*	7787-20-4	ND	ND	
isopulegol	89-79-2	ND	ND	
menthol*	89-78-1	0.211	2,110	
geraniol	106-24-1	ND	ND	
beta-caryophyllene	87-44-5	0.0272	272	
alpha-humulene	6753-98-6	0.0014	13.7	
cis-nerolidol	3790-78-1	ND	ND	
trans-nerolidol	40716-66-3	ND	ND	
guaïol	489-86-1	<RL	<RL	
caryophyllene oxide	1139-30-6	0.0011	11.2	
alpha-bisabolol	23089-26-1	<RL	<RL	

wt% 0.00 0.25 0.50

Total Terpene: 0.8 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