

Certificate ID: **107953**

Received: **8/4/22**

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Client Sample ID: **Tincture oil R9000**

Lot Number: **672**

Matrix: **Pet Tinctures - For Dogs and Cats**

Authorization: Chris Hudalla, Chief Science Officer	Signature: <i>Christopher Hudalla</i>	Date: 8/10/2022
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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: **AC**

Test Date: **8/6/2022**

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.

**107953-CN**

ID	Weight %	Concentration (mg/mL)		
<b>Δ9-THC</b>	<b>0.153</b>	<b>1.43</b>		
THCV	ND	ND		
CBD	3.85	35.9		
CBDV	<LOQ	<LOQ		
CBG	0.0737	0.688		
CBC	0.151	1.41		
CBN	<LOQ	<LOQ		
THCA	0.140	1.30		
CBDA	3.81	35.6		
CBGA	0.140	1.31		
CBDVA	0.0120	0.112		
<b>Δ8-THC</b>	<b>ND</b>	<b>ND</b>		
<b>exo-THC</b>	<b>ND</b>	<b>ND</b>		
Total	8.33	77.7	0%	Cannabinoids (wt%) 3.85%
Max THC	0.276	2.57		Limit of Quantitation (LOQ) = 0.0113 wt%
Max CBD	7.19	67.1		Limit of Detection (LOD) = 0.0038 wt%

**Ratio of Total CBD to THC 26.1:1**

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 Limit of Quantification (LOQ). For values reported as "<LOQ", the estimated value is included in the calculated Total.

**TP: Terpenes Profile [WI-10-27]**

Analyst: CJS

Test Date: 8/8/2022

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.

**107953-TP**

Compound	CAS	Conc. (wt%)	Conc. (ppm)	Qualitative Profile
alpha-pinene	80-56-8	0.136	1,360	
camphene	79-92-5	0.0028	28.4	
sabinene*	3387-41-5	ND	ND	
beta-myrcene	123-35-3	0.290	2,900	
beta-pinene	127-91-3	0.0521	521	
alpha-phellandrene	99-83-2	ND	ND	
delta-3-carene	13466-78-9	ND	ND	
alpha-terpinene	99-86-5	ND	ND	
alpha-ocimene	502-99-8	ND	ND	
D-limonene	5989-27-5	0.0337	337	
p-cymene	99-87-6	ND	ND	
beta-ocimene	13877-91-3	0.0042	42.0	
eucalyptol	470-82-6	0.0081	80.8	
gamma-terpinene	99-85-4	<LOQ	<LOQ	
terpinolene	586-62-9	<LOQ	<LOQ	
linalool	78-70-6	0.0261	261	
L-fenchone*	7787-20-4	0.0011	10.6	
isopulegol	89-79-2	ND	ND	
menthol*	89-78-1	ND	ND	
geraniol	106-24-1	ND	ND	
beta-caryophyllene	87-44-5	0.0714	714	
alpha-humulene	6753-98-6	0.0240	240	
cis-nerolidol	3790-78-1	ND	ND	
trans-nerolidol	40716-66-3	ND	ND	
guaiol	489-86-1	0.0095	95.4	
caryophyllene oxide	1139-30-6	ND	ND	
alpha-bisabolol	23089-26-1	0.0129	129	

Total Terpene: 0.7 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**