



Certificate ID: **97547** Received: **9/14/21**
 Client Sample ID: **Bulk Vet Strength Bucket 1**
 Lot Number: **522**
 Matrix: **Pet Tinctures - For Cats and Dogs**

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 The Heart & Science of Better Pet Health

Authorization:	Signature:	Date:
Chris Hudalla, Chief Science Officer	<i>Christopher Hudalla</i>	9/17/2021



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: 9/15/2021

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.

97547-CN

ID	Weight %	Concentration (mg/mL)	
D9-THC	0.211	2.00	
THCV	ND	ND	
CBD	3.96	37.5	
CBDV	<LOQ	<LOQ	
CBG	0.0793	0.751	
CBC	0.184	1.74	
CBN	<LOQ	<LOQ	
THCA	0.0788	0.746	
CBDA	3.04	28.8	
CBGA	0.0839	0.795	
D8-THC	ND	ND	
exo-THC	ND	ND	
Total	7.65	72.5	0% Cannabinoids (wt%) 3.96%
Max THC	0.280	2.65	Limit of Quantitation (LOQ) = 0.0111 wt%
Max CBD	6.63	62.8	Limit of Detection (LOD) = 0.0037 wt%

Ratio of Total CBD to THC 23.7:1

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 [W1-10-08]

Analyst: AC

Test Date: 9/15/2021

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.

97547-TP

Compound	CAS	Conc. (wt%)	Conc. (ppm)	Qualitative Profile
alpha-pinene	80-56-8	0.0358	358	
camphene	79-92-5	0.0008	8.29	
myrcene	123-36-3	0.0458	458	
beta-pinene	127-91-3	0.0111	111	
3-carene	13466-78-9	ND	ND	
alpha-terpinene	99-86-5	<RL	<RL	
Ocimene-1	-	<RL	<RL	
limonene	138-86-3	0.0068	67.6	
p-cymene*	99-87-6	<RL	<RL	
Ocimene-2	-	ND	ND	
eucalyptol	470-82-6	0.0031	31.4	
gamma-terpinene	99-85-4	<RL	<RL	
terpinolene	586-62-9	<RL	<RL	
linalool	78-70-6	0.0103	103	
isopulegol	89-79-2	ND	ND	
beta-caryophyllene	87-44-5	0.0172	172	
humulene	6753-98-6	0.0040	39.7	

ppm 0.00

250.00

500.00

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