

Certificate ID: **106046**

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**Kanna Star Sp. z o. o.**

Client Sample ID: **KST90CBDFSD**

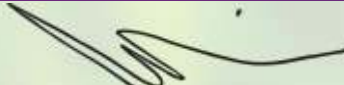


**Zbikowska 13**

Lot Number: **02062022CBDFSD90**

**Pruszkow, 05-800 Poland**

Matrix: **Vape Oil - Distillate**

Authorization: <b>Andrew Aubin, Lab Director</b>	Signature: 	Date: <b>7/18/2022</b>
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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: 7/12/2022*

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.

**106046-CN**

ID	Weight %	Concentration (mg/g)			
<b>Δ9-THC</b>	<b>0.106</b>	<b>1.06</b>			
<b>THCV</b>	<b>ND</b>	<b>ND</b>			
<b>CBD</b>	<b>34.0</b>	<b>340</b>			
<b>CBDV</b>	<b>0.339</b>	<b>3.39</b>			
<b>CBG</b>	<b>2.42</b>	<b>24.2</b>			
<b>CBC</b>	<b>ND</b>	<b>ND</b>			
<b>CBN</b>	<b>ND</b>	<b>ND</b>			
<b>THCA</b>	<b>&lt;LOQ</b>	<b>&lt;LOQ</b>			
<b>CBDA</b>	<b>50.8</b>	<b>508</b>			
<b>CBGA</b>	<b>1.60</b>	<b>16.0</b>			
<b>CBDVA</b>	<b>0.206</b>	<b>2.06</b>			
<b>Δ8-THC</b>	<b>ND</b>	<b>ND</b>			
<b>exo-THC</b>	<b>ND</b>	<b>ND</b>			
<b>Total</b>	<b>89.5</b>	<b>895</b>	<b>0%</b>	<b>Cannabinoids (wt%)</b>	<b>50.8%</b>
<b>Max THC</b>	<b>0.106</b>	<b>1.06</b>		<b>Limit of Quantitation (LOQ) = 0.0524 wt%</b>	
<b>Max CBD</b>	<b>78.6</b>	<b>786</b>		<b>Limit of Detection (LOD) = 0.0175 wt%</b>	

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:  $MAX\ THC = (0.877 \times THCA) + THC$ . 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: 7/15/2022

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.

**106046-TP**

Compound	CAS	Conc. (wt%)	Conc. (ppm)	Qualitative Profile
alpha-pinene	80-56-8	0.0717	717	
camphene	79-92-5	0.0247	247	
sabinene*	3387-41-5	ND	ND	
beta-myrcene	123-35-3	0.152	1,520	
beta-pinene	127-91-3	0.0120	120	
alpha-phellandrene	99-83-2	0.0187	187	
delta-3-carene	13466-78-9	ND	ND	
alpha-terpinene	99-86-5	0.0128	128	
alpha-ocimene	502-99-8	0.0668	668	
D-limonene	5989-27-5	0.472	4,720	
p-cymene	99-87-6	ND	ND	
cis-beta-ocimene	3338-55-4	0.0175	175	
eucalyptol	470-82-6	0.0133	133	
gamma-terpinene	99-85-4	0.0050	49.5	
terpinolene	586-62-9	0.0198	198	
linalool	78-70-6	0.201	2,010	
L-fenchone*	7787-20-4	0.0079	78.6	
isopulegol	89-79-2	ND	ND	
menthol*	89-78-1	ND	ND	
geraniol	106-24-1	ND	ND	
beta-caryophyllene	87-44-5	0.103	1,030	
alpha-humulene	6753-98-6	0.0171	171	
cis-nerolidol	3790-78-1	ND	ND	
trans-nerolidol	40716-66-3	ND	ND	
guaial	489-86-1	ND	ND	
caryophyllene oxide	1139-30-6	ND	ND	
alpha-bisabolol	23089-26-1	ND	ND	

Total Terpene: 1.2 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**