

Certificate ID: **109042**

Received: **12/09/24**

**Tennessee CBD Solutions**


Client Sample ID: **THCA Cartridge**

**4004 Hillsboro Pike, Unit 150-R**

Lot Number: **1001**

**Nashville, TN 37215**

Matrix: **Concentrates - Cartridge**

Authorization: <b>Andrew Aubin, Lab Director</b>	Signature: 	Date: <b>12/14/2024</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: **12/10/2024**

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. In addition to compounds reported here, multiple cannabinoid isomers or byproducts, which do not occur naturally, were observed in this sample and cannot be identified. No toxicity data is available for these unknown compounds, and as such would not be recommended for human consumption. As non-natural synthetic cannabinoids, these would not be exempted from the Controlled Substance Act (CSA).

**109042-CN**

ID	Weight %	Concentration (mg/caramel)			
<b>Δ9-THC</b>	<b>0.0408</b>	<b>0.794</b>			
<b>THCV</b>	<b>ND</b>	<b>ND</b>			
<b>CBD</b>	<b>ND</b>	<b>ND</b>			
<b>CBDV</b>	<b>ND</b>	<b>ND</b>			
<b>CBG</b>	<b>ND</b>	<b>ND</b>			
<b>CBC</b>	<b>ND</b>	<b>ND</b>			
<b>CBN</b>	<b>ND</b>	<b>ND</b>			
<b>THCA</b>	<b>39.254</b>	<b>78.6</b>			
<b>CBDA</b>	<b>ND</b>	<b>ND</b>			
<b>CBGA</b>	<b>ND</b>	<b>ND</b>			
<b>CBDVA</b>	<b>ND</b>	<b>ND</b>			
<b>Δ8-THC</b>	<b>ND</b>	<b>ND</b>			
<b>exo-THC</b>	<b>0.0327</b>	<b>0.636</b>			
<b>Total</b>	<b>39.254</b>	<b>78.6</b>	<b>0%</b>	<b>Cannabinoids (wt%)</b>	<b>0.920%</b>
<b>Max THC</b>	<b>0.0408</b>	<b>0.794</b>		<b>Limit of Quantitation (LOQ) = 0.0024 wt%</b>	
<b>Max CBD</b>	<b>ND</b>	<b>ND</b>		<b>Limit of Detection (LOD) = 0.0008 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.

**VC: Analysis of Volatile Organic Compounds [WI-10-07]***Analyst: AC**Test Date: 12/10/2024*

The client sample was analyzed by Head-Space Gas Chromatography (HS-GC). The collected data was compared to data collected for certified reference standards at known concentrations.

**109038-VC**

Compound	CAS	Amount <sup>1</sup>	Limit <sup>2</sup>	RL	Status
Propane	74-98-6	ND	1,000 ppm	100	PASS
Isobutane	75-28-5	ND	1,000 ppm	100	PASS
Butane	106-97-8	ND	1,000 ppm	100	PASS
Methanol	67-56-1	ND	3,000 ppm	100	PASS
Pentane	109-66-0	ND	5,000 ppm	100	PASS
Ethanol	64-17-5	ND	5,000 ppm	100	PASS
Acetone	67-64-1	ND	5,000 ppm	100	PASS
Isopropanol	67-63-0	ND	5,000 ppm	100	PASS
Acetonitrile	75-05-8	ND	410 ppm	100	PASS
Hexane	110-54-3	ND	290 ppm	100	PASS
Heptane	142-82-5	ND	5,000 ppm	100	PASS

1) ND = Not detected at a level greater than the Reporting Limit (RL).

2) In ppm, based on USP recommended limits for residual solvents, adopted by the Massachusetts Department of Public Health for cannabis concentrates and extracts on 3/31/16. Butane/Propane limits are based on limits established for state of Colorado.

(\*) For ethanol, as many formulations contain flavorings based on ethanol extracts of natural products, no status has been assigned.

**END OF REPORT**