


Certificate ID: **112832**  
 Client Sample ID: **Pepp\_Crunch**  
 Lot Number: **23E1021A**  
 Matrix: **Edibles-Chocolate**

Received: **1/19/23**

Scan QR Code for authenticity



**Grassland Botanicals, Inc.**  
**60 29th Street, #220**  
**San Francisco, CA 94110**

Authorization: <b>Andrew Aubin, Lab Director</b>	Signature: 	Date: <b>1/24/2023</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: *SD*

Test Date: *1/20/2023*

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.

**112832-CN**

ID	Weight %	Concentration (mg/piece)			
<b>Δ9-THC</b>	<b>ND</b>	<b>ND</b>			
<b>THCV</b>	<b>ND</b>	<b>ND</b>			
<b>CBD</b>	<b>0.230</b>	<b>22.6</b>			
<b>CBDV</b>	<b>&lt;LOQ</b>	<b>&lt;LOQ</b>			
<b>CBG</b>	<b>ND</b>	<b>ND</b>			
<b>CBC</b>	<b>&lt;LOQ</b>	<b>&lt;LOQ</b>			
<b>CBN</b>	<b>&lt;LOQ</b>	<b>&lt;LOQ</b>			
<b>THCA</b>	<b>ND</b>	<b>ND</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>ND</b>	<b>ND</b>			
<b>Total</b>	<b>0.230</b>	<b>22.6</b>	<b>0%</b>	<b>Cannabinoids (wt%)</b>	<b>0.230%</b>
<b>Max THC</b>	<b>ND</b>	<b>ND</b>		<b>Limit of Quantitation (LOQ) = 0.0025 wt%</b>	
<b>Max CBD</b>	<b>0.230</b>	<b>22.6</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.

**EA: Elemental Analysis [WI-10-13]**

Analyst: ZDV

Test Date: 1/20/2023

This test method was performed in accordance with the requirements of ISO/IEC 17025. These results relate only to the test article listed in this report. Reports may not be reproduced except in their entirety.

**112832-EA**

Symbol	Metal	Conc. <sup>1</sup> (µg/kg)	RL (µg/kg)	Limits <sup>2</sup> (µg/kg)	Status
Al	Aluminum	219,000	50	-	
As	Arsenic	ND	50	1,500	PASS
Cd	Cadmium	ND	50	500	PASS
Ca	Calcium	39,000	500	-	
Cr	Chromium	1,700	50	1,100,000	PASS
Co	Cobalt	334	50	5,000	PASS
Cu	Copper	9,810	50	300,000	PASS
Fe	Iron	215,000	50	-	
Pb	Lead	ND	50	500	PASS
Mg	Magnesium	1,130,000	50	-	
Mn	Manganese	10,300	50	-	
Hg	Mercury	ND	50	3,000	PASS
Ni	Nickel	2,390	50	20,000	PASS
P	Phosphorus	1,690,000	500	-	
K	Potassium	3,880,000	500	-	
Se	Selenium	ND	50	-	
Ag	Silver	ND	50	15,000	PASS
S	Sulfur	153,000	500	-	
Sn	Tin	ND	500	600,000	PASS
Zn	Zinc	19,100	50	-	

1) ND = None detected to the Limit of Detection (LOD)

2) USP recommended maximum daily limits for oral drug product.

**END OF REPORT**