


Certificate ID: **112830**
 Received: **1/19/23**
 Client Sample ID: **Caramel**
 Lot Number: **23E1021A**
 Matrix: **Edibles-Chocolate**

Scan QR Code for authenticity



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

Authorization: Andrew Aubin, Lab Director	Signature: 	Date: 1/24/2023
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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.

112830-CN

ID	Weight %	Concentration (mg/piece)			
Δ9-THC	ND	ND			
THCV	ND	ND			
CBD	0.201	21.9			
CBDV	<LOQ	<LOQ			
CBG	ND	ND			
CBC	<LOQ	<LOQ			
CBN	<LOQ	<LOQ			
THCA	ND	ND			
CBDA	ND	ND			
CBGA	ND	ND			
CBDVA	ND	ND			
Δ8-THC	ND	ND			
exo-THC	ND	ND			
Total	0.201	21.9	0%	Cannabinoids (wt%)	0.201%
Max THC	ND	ND		Limit of Quantitation (LOQ) = 0.0025 wt%	
Max CBD	0.201	21.9		Limit of Detection (LOD) = 0.0008 wt%	

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.

EA: Elemental Analysis [WI-10-13]

Analyst: ZDV

Test Date: 1/20/2023

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112830-EA

Symbol	Metal	Conc. ¹ (µg/kg)	RL (µg/kg)	Limits ² (µg/kg)	Status
Al	Aluminum	238,000	50	-	
As	Arsenic	ND	50	1,500	PASS
Cd	Cadmium	ND	50	500	PASS
Ca	Calcium	35,000	500	-	
Cr	Chromium	1,110	50	1,100,000	PASS
Co	Cobalt	227	50	5,000	PASS
Cu	Copper	5,930	50	300,000	PASS
Fe	Iron	128,000	50	-	
Pb	Lead	ND	50	500	PASS
Mg	Magnesium	708,000	50	-	
Mn	Manganese	6,220	50	-	
Hg	Mercury	ND	50	3,000	PASS
Ni	Nickel	1,430	50	20,000	PASS
P	Phosphorus	1,090,000	500	-	
K	Potassium	2,560,000	500	-	
Se	Selenium	ND	50	-	
Ag	Silver	ND	50	15,000	PASS
S	Sulfur	85,800	500	-	
Sn	Tin	714	500	600,000	PASS
Zn	Zinc	10,400	50	-	

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

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

END OF REPORT