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CERTIFICATE OF ANALYSIS

Prepared for:
Fulton Brewing
2540 2nd Street NE
Minneapolis, MN USA 55418

FTHC-1897

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 1 of 1
FTHC-1897	Various	Unit	
Reported:	**Started:**	**Received:**	
08Dec2023	08Dec2023	07Dec2023	

Cannabinoids

Test ID: T000264236
Methods: TM14 (HPLC-DAD)

	LOD (mg)	**LOQ** (mg)	**Result** (mg)	**Result** (mg/g)	**Notes**
Cannabichromene (CBC)	0.157	0.515	ND	ND	# of Servings = 1, Sample Weight=359.76g
Cannabichromenic Acid (CBCA)	0.143	0.471	ND	ND	
Cannabidiol (CBD)	0.421	1.296	ND	ND	
Cannabidiolic Acid (CBDA)	0.432	1.330	ND	ND	
Cannabidivarin (CBDV)	0.100	0.307	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.180	0.555	ND	ND	
Cannabigerol (CBG)	0.089	0.292	ND	ND	
Cannabigerolic Acid (CBGA)	0.371	1.222	ND	ND	
Cannabinol (CBN)	0.116	0.381	ND	ND	
Cannabinolic Acid (CBNA)	0.253	0.834	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.443	1.456	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.402	1.322	4.180	0.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.356	1.171	ND	ND	
Tetrahydrocannabivarin (THCV)	0.081	0.266	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.314	1.033	ND	ND	
Total Cannabinoids			**4.180**	**0.00**	
Total Potential THC			4.180	0.00	
Total Potential CBD			ND	ND	

Final Approval

Karen Winternheimer
08Dec2023
02:49:00 PM MST
PREPARED BY / DATE

Sam Smith
08Dec2023
02:51:00 PM MST
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/8ca0d9c0-9260-40b3-9510-393b3e9f78b9

Definitions
LOD = Limit of Detection, ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation, PPB = Parts per Billion, % = % (w/w) = Percent (weight of analyte / weight of product). ND = None Detected (defined by dynamic range of the method). Total Potential Delta 9-THC or CBD is calculated to take into account the loss of a carboxyl group during decarboxylation step, using the following formulas: Total Potential Delta 9-THC = Delta 9-THC + (Delta 9-THCa *(0.877)) and Total CBD = CBD + (CBDa *(0.877)). Fail equates to a concentration level of Delta 9-THC, on a dry weight basis, higher than 0.3 percent + or – the measurement uncertainty. Total Potential THC is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step. Total THC = THC + (THCa *(0.877)). ALOQ = Above Limit Of Quantitation (defined by dynamic range of the method), CFU/g = Colony Forming Units per Gram. Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form. Examples: 10^2 = 100 CFU, 10^3 = 1,000 CFU, 10^4 = 10,000 CFU, 10^5 = 100,000 CFU.

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