SC Labs®
Formerly Botanacor Labs

CERTIFICATE OF ANALYSIS

Prepared for:
Lupulin Brewing Company
570 Humboldt Drive, Ste. 107
Big Lake, MN USA 55309

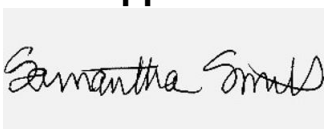
Smazey

Batch ID or Lot Number:	Test:	Reported:	USDA License:
FV14-2	**Potency**	**13Mar2023**	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Unit	T000238341	13Mar2023	N/A
	Method(s):	Received:	Status:
	TM14 (HPLC-DAD)	13Mar2023	N/A

Cannabinoids

	LOD (mg)	**LOQ** (mg)	**Result** (mg)	**Result** (mg/g)	**Notes**
Cannabichromene (CBC)	0.198	0.619	ND	ND	# of Servings = 1, Sample Weight=473g
Cannabichromenic Acid (CBCA)	0.181	0.566	ND	ND	
Cannabidiol (CBD)	0.663	1.851	ND	ND	
Cannabidiolic Acid (CBDA)	0.680	1.898	ND	ND	
Cannabidivarin (CBDV)	0.157	0.438	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.284	0.792	ND	ND	
Cannabigerol (CBG)	0.112	0.352	ND	ND	
Cannabigerolic Acid (CBGA)	0.469	1.470	ND	ND	
Cannabinol (CBN)	0.146	0.459	ND	ND	
Cannabinolic Acid (CBNA)	0.320	1.003	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.559	1.751	<LOQ	<LOQ	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.507	1.590	11.040	0.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.450	1.409	ND	ND	
Tetrahydrocannabivarin (THCV)	0.102	0.320	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.396	1.243	ND	ND	
Total Cannabinoids			**11.040**	**0.00**	
Total Potential THC			11.040	0.00	
Total Potential CBD			ND	ND	

Final Approval



Sam Smith
13Mar2023
02:18:00 PM MDT

PREPARED BY / DATE

Karen Winternheimer
13Mar2023
02:21:00 PM MDT

APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/1413e486-8aa2-4fa5-8248-bcf6637461ac

Definitions
% = % (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)).

Cert #4329.02
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