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CERTIFICATE OF ANALYSIS

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

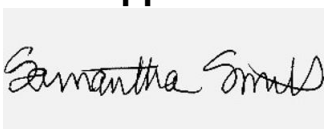
Smazey - Passion Fruit Strawberry Watermelon

Batch ID or Lot Number:	Test:	Reported:	USDA License:
SMZ4	**Potency**	**22Nov2022**	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Unit	T000228127	21Nov2022	N/A
	Method(s):	Received:	Status:
	TM14 (HPLC-DAD)	21Nov2022	N/A

Cannabinoids

	LOD (mg)	**LOQ** (mg)	**Result** (mg)	**Result** (mg/g)	**Notes**
Cannabichromene (CBC)	0.195	0.683	<LOQ	<LOQ	# of Servings = 1, Sample Weight=473.95g
Cannabichromenic Acid (CBCA)	0.178	0.625	ND	ND	
Cannabidiol (CBD)	0.666	1.763	ND	ND	
Cannabidiolic Acid (CBDA)	0.683	1.808	ND	ND	
Cannabidivarin (CBDV)	0.158	0.417	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.285	0.754	ND	ND	
Cannabigerol (CBG)	0.111	0.388	<LOQ	<LOQ	
Cannabigerolic Acid (CBGA)	0.463	1.621	ND	ND	
Cannabinol (CBN)	0.144	0.506	<LOQ	<LOQ	
Cannabinolic Acid (CBNA)	0.316	1.106	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.551	1.932	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.501	1.754	13.010	0.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.444	1.554	ND	ND	
Tetrahydrocannabivarin (THCV)	0.101	0.353	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.391	1.371	ND	ND	
Total Cannabinoids			**13.010**	**0.00**	
Total Potential THC			13.010	0.00	
Total Potential CBD			ND	ND	

Final Approval



Sam Smith
22Nov2022
02:57:00 PM MST

PREPARED BY / DATE

Karen Winternheimer
22Nov2022
02:59:00 PM MST

APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/d873f154-ad9d-4be1-b19a-6bd6a88603e9

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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