

Prepared for:

Lupulin Brewing Company

570 Humboldt Drive, Ste. 107


Big Lake, MN USA 55309

Smazey Strawberry Lemonade

Batch ID or Lot Number: SMZ21	Test: Potency	Reported: 06Jun2023	USDA License: N/A
Matrix: Unit	Test ID: T000245637	Started: 05Jun2023	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD)	Received: 05Jun2023	Status: N/A

Cannabinoids

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.206	0.728	ND	ND	# of Servings = 1, Sample Weight=473g
Cannabichromenic Acid (CBCA)	0.188	0.666	ND	ND	
Cannabidiol (CBD)	0.709	1.934	ND	ND	
Cannabidiolic Acid (CBDA)	0.728	1.984	ND	ND	
Cannabidivarin (CBDV)	0.168	0.457	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.304	0.828	ND	ND	
Cannabigerol (CBG)	0.117	0.413	ND	ND	
Cannabigerolic Acid (CBGA)	0.488	1.727	ND	ND	
Cannabinol (CBN)	0.152	0.539	ND	ND	
Cannabinolic Acid (CBNA)	0.333	1.179	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.582	2.058	<LOQ	<LOQ	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.528	1.869	9.920	0.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.468	1.656	ND	ND	
Tetrahydrocannabivarin (THCV)	0.106	0.376	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.413	1.461	ND	ND	
Total Cannabinoids			9.920	0.00	
Total Potential THC			9.920	0.00	
Total Potential CBD			ND	ND	

Final ApprovalSam Smith
06Jun2023
01:04:00 PM MDT

PREPARED BY / DATE

Karen Winternheimer
06Jun2023
01:06:00 PM MDT

APPROVED BY / DATE

<https://results.botanacor.com/api/v1/coas/uuid/3bd68dc2-d0ea-4b85-8ec0-d80c003046d6>**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)).

Testing results are based solely upon the sample submitted to SC Laboratories, Inc., in the condition it was received. SC Laboratories, Inc., warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of SC Laboratories, Inc. ISO/IEC 17025:2017 Accredited by A2LA.



Cert #4329.02

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Prepared for:
Lupulin Brewing Company

570 Humboldt Drive, Ste. 107
Big Lake, MN USA 55309

Smazey

Batch ID or Lot Number: SMZ21-SMZ24	Test: Pesticides	Reported: 25May2023	USDA License: NA
Matrix: Finished Product	Test ID: T000244088	Started: 23May2023	Sampler ID: NA
	Method(s): TM17 (LC-QQ LC MS/MS)	Received: 18May2023	Status: NA

Pesticides

Pesticides	Dynamic Range (ppb)	Result (ppb)
Abamectin	272 - 2715	ND
Acephate	44 - 2775	ND
Acetamiprid	44 - 2747	ND
Azoxystrobin	45 - 2714	ND
Bifenazate	39 - 2690	ND
Boscalid	31 - 2648	ND
Carbaryl	43 - 2748	ND
Carbofuran	41 - 2718	ND
Chlorantraniliprole	44 - 2660	ND
Chlorpyrifos	40 - 2733	ND
Clofentezine	291 - 2714	ND
Diazinon	281 - 2707	ND
Dichlorvos	272 - 2769	ND
Dimethoate	43 - 2729	ND
E-Fenpyroximate	270 - 2726	ND
Etofenprox	41 - 2666	ND
Etoxazole	292 - 2672	ND
Fenoxycarb	14 - 2725	ND
Fipronil	28 - 2650	ND
Flonicamid	54 - 2811	ND
Fludioxonil	278 - 2651	ND
Hexythiazox	43 - 2705	ND
Imazalil	276 - 2741	ND
Imidacloprid	50 - 2785	ND
Kresoxim-methyl	45 - 2723	ND

	Dynamic Range (ppb)	Result (ppb)
Malathion	288 - 2719	ND
Metalaxyl	39 - 2714	ND
Methiocarb	46 - 2692	ND
Methomyl	45 - 2768	ND
MGK 264 1	167 - 1674	ND
MGK 264 2	101 - 1063	ND
Myclobutanil	47 - 2722	ND
Naled	52 - 2771	ND
Oxamyl	46 - 2772	ND
Paclobutrazol	44 - 2722	ND
Permethrin	260 - 2692	ND
Phosmet	42 - 2726	ND
Prophos	304 - 2666	ND
Propoxur	43 - 2740	ND
Pyridaben	294 - 2663	ND
Spinosad A	33 - 2083	ND
Spinosad D	64 - 658	ND
Spiromesifen	258 - 2708	ND
Spirotetramat	265 - 2777	ND
Spiroxamine 1	20 - 1162	ND
Spiroxamine 2	25 - 1480	ND
Tebuconazole	286 - 2782	ND
Thiacloprid	42 - 2728	ND
Thiamethoxam	46 - 2775	ND
Trifloxystrobin	42 - 2708	ND

Final Approval



Alex Benson
25May2023
12:41:00 PM MDT

PREPARED BY / DATE



Phillip Travisano
25May2023
02:50:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/56980591-0a11-43ce-b07c-5b5960a37adc>

Definitions

ND = None Detected (defined by dynamic range of the method)
Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range
ppb = Parts Per Billion

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Prepared for:

Lupulin Brewing Company

570 Humboldt Drive, Ste. 107

Big Lake, MN USA 55309

Smazey

Batch ID or Lot Number: SMZ21-SMZ24	Test: Microbial Contaminants	Reported: 23May2023	USDA License: NA
Matrix: Finished Product	Test ID: T000244089	Started: 19May2023	Sampler ID: NA
	Method(s): TM25 (PCR) TM24, TM26, TM27 (Culture Plating)	Received: 18May2023	Status: NA

Microbial

Contaminants

	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
<i>Salmonella</i>	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	
Total Yeast and Mold*	TM24: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	7.4x10 ³ CFU/g	
Total Aerobic Count*	TM26: Culture Plating	10 ² CFU/g	1.0x10 ³ - 1.5x10 ⁵	<LLOQ	
Total Coliforms*	TM27: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	

Final Approval



Brett Hudson
22May2023
03:51:00 PM MDT

PREPARED BY / DATE



Eden Thompson-Wright
23May2023
09:47:00 AM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/839722a1-c6c0-4ea2-a4ff-6c1be6e1e59c>

Definitions

* Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form. Examples: 10² = 100 CFU, 10³ = 1,000 CFU, 10⁴ = 10,000 CFU, 10⁵ = 100,000 CFU
CFU/g = Colony Forming Units per Gram, LOD = Limit of Detection
ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation
STEC = Shiga Toxin-Producing E. coli

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Prepared for:

Lupulin Brewing Company

570 Humboldt Drive, Ste. 107

Big Lake, MN USA 55309


Smazey

Batch ID or Lot Number: SMZ21-SMZ24	Test: Heavy Metals	Reported: 22May2023	USDA License: NA
Matrix: Finished Product	Test ID: T000244090	Started: 19May2023	Sampler ID: NA
	Method(s): TM19 (ICP-MS): Heavy Metals	Received: 18May2023	Status: NA

Heavy Metals

	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.53	ND	
Cadmium	0.04 - 4.47	ND	
Mercury	0.05 - 4.60	ND	
Lead	0.04 - 4.50	ND	

Final Approval



Sam Smith
22May2023
07:47:00 AM MDT

PREPARED BY / DATE



Karen Winternheimer
22May2023
07:49:00 AM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/a43d0ffc-9d72-4bd9-85b4-0aa0d3f86794>

Definitions

ND = None Detected (defined by dynamic range of the method)

Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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