

Prepared for:
Bent Paddle Brewing Co
1912 W Michigan St.
Duluth, MN USA 55806

Superior Seltzer - Lemon Lime

Batch ID or Lot Number: 122823-LL	Test, Test ID and Methods: Various	Matrix: Unit	Page 2 of 4
Reported: 27Dec2023	Started: 27Dec2023	Received: 27Dec2023	

Microbial Contaminants


Test ID: T000266014

Methods: TM25 (PCR) TM24, TM26, TM27 (Culture Plating)

	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	None Detected	
Total Aerobic Count*	TM26: Culture Plating	10 ² CFU/g	1.0x10 ³ - 1.5x10 ⁵	3.2x10 ³ CFU/g	
Total Coliforms*	TM27: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	

Final Approval


Brianne Maillot
02Jan2024
11:57:00 AM MST


Brett Hudson
02Jan2024
01:04:00 PM MST

PREPARED BY / DATE

APPROVED BY / DATE


Heavy Metals


Test ID: T000266015

Methods: TM19 (ICP-MS): Heavy Metals

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.24	ND	
Cadmium	0.04 - 4.11	ND	
Mercury	0.04 - 4.27	ND	
Lead	0.04 - 4.08	ND	

Final Approval


Samantha Smith
03Jan2024
10:38:00 AM MST


Karen Winternheimer
03Jan2024
10:41:00 AM MST

PREPARED BY / DATE

APPROVED BY / DATE

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Pesticides


Test ID: T000266013

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	313 - 2683	ND		Malathion	290 - 2696	ND
Acephate	42 - 2718	ND		Metalaxyl	44 - 2712	ND
Acetamiprid	44 - 2701	ND		Methiocarb	43 - 2781	ND
Azoxystrobin	46 - 2713	ND		Methomyl	42 - 2742	ND
Bifenazate	46 - 2730	ND		MGK 264 1	170 - 1624	ND
Boscalid	47 - 2764	ND		MGK 264 2	117 - 1075	ND
Carbaryl	44 - 2699	ND		Myclobutanil	13 - 2763	ND
Carbofuran	43 - 2699	ND		Naled	45 - 2672	ND
Chlorantraniliprole	44 - 2788	ND		Oxamyl	42 - 2752	ND
Chlorpyrifos	53 - 2703	ND		Paclobutrazol	42 - 2697	ND
Clofentezine	288 - 2742	ND		Permethrin	286 - 2754	ND
Diazinon	278 - 2719	ND		Phosmet	45 - 2614	ND
Dichlorvos	288 - 2694	ND		Prophos	298 - 2772	ND
Dimethoate	43 - 2704	ND		Propoxur	44 - 2715	ND
E-Fenpyroximate	276 - 2764	ND		Pyridaben	301 - 2685	ND
Etofenprox	47 - 2700	ND		Spinosad A	33 - 2090	ND
Etoxazole	290 - 2635	ND		Spinosad D	63 - 664	ND
Fenoxycarb	49 - 2754	ND		Spiromesifen	269 - 2716	ND
Fipronil	56 - 2686	ND		Spirotetramat	272 - 2795	ND
Flonicamid	46 - 2747	ND		Spiroxamine 1	17 - 1053	ND
Fludioxonil	303 - 2742	ND		Spiroxamine 2	27 - 1616	ND
Hexythiazox	49 - 2725	ND		Tebuconazole	281 - 2738	ND
Imazalil	274 - 2745	ND		Thiacloprid	45 - 2702	ND
Imidacloprid	40 - 2749	ND		Thiamethoxam	43 - 2744	ND
Kresoxim-methyl	46 - 2760	ND		Trifloxystrobin	48 - 2729	ND

Final Approval


Sam Smith
04Jan2024
09:17:00 AM MST
PREPARED BY / DATE


Karen Winternheimer
04Jan2024
09:21:00 AM MST
APPROVED BY / DATE

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<https://results.botanacor.com/api/v1/coas/uuid/e1a912d3-080b-4648-97ed-9fe38768b46a>

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: 10² = 100 CFU, 10³ = 1,000 CFU, 10⁴ = 10,000 CFU, 10⁵ = 100,000 CFU.

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 A2LA Cert #: 4329.02 Chemical; 4329.03 Biological. Some tests listed on this COA may not be within our scope of A2LA accreditation. Please visit [A2LA for more details](#).



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