

Prepared for:

Bent Paddle Brewing Co

1912 W Michigan St.

Duluth, MN USA 55806

Hightened - Mary Jane's Mule

Batch ID or Lot Number: 013024 -HIMJ	Test, Test ID and Methods: Various	Matrix: Unit	Page 1 of 4
Reported: 26Jan2024	Started: 26Jan2024	Received: 26Jan2024	


Cannabinoids

Test ID: T000268927


Methods: TM14 (HPLC-DAD)

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.151	0.518	ND	ND	# of Servings = 1, Sample Weight=355g
Cannabichromenic Acid (CBCA)	0.138	0.474	ND	ND	
Cannabidiol (CBD)	0.478	1.489	ND	ND	
Cannabidiolic Acid (CBDA)	0.490	1.527	ND	ND	
Cannabidivarin (CBDV)	0.113	0.352	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.204	0.637	ND	ND	
Cannabigerol (CBG)	0.086	0.294	0.360	0.00	
Cannabigerolic Acid (CBGA)	0.358	1.229	ND	ND	
Cannabinol (CBN)	0.112	0.384	<LOQ	<LOQ	
Cannabinolic Acid (CBNA)	0.245	0.838	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.427	1.464	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.388	1.330	10.910	0.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.344	1.178	ND	ND	
Tetrahydrocannabivarin (THCV)	0.078	0.267	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.303	1.039	ND	ND	
Total Cannabinoids			11.270	0.00	
Total Potential THC			10.910	0.00	
Total Potential CBD			ND	ND	

Final Approval


Sam Smith
27Jan2024
05:32:00 PM MST

PREPARED BY / DATE


Karen Winternheimer
27Jan2024
05:33:00 PM MST

APPROVED BY / DATE

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Microbial Contaminants

Test ID: T000268929

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	None Detected	
Total Coliforms*	TM27: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	

Final Approval


Brianne Maillot
29Jan2024
02:11:00 PM MST
PREPARED BY / DATE


Eden Thompson-Wright
29Jan2024
03:10:00 PM MST
APPROVED BY / DATE

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

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Pesticides


Test ID: T000268928

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	297 - 2195	ND		Malathion	296 - 2576	ND
Acephate	44 - 2597	ND		Metalaxyl	44 - 2583	ND
Acetamiprid	45 - 2581	ND		Methiocarb	47 - 2641	ND
Azoxystrobin	46 - 2567	ND		Methomyl	43 - 2646	ND
Bifenazate	45 - 2568	ND		MGK 264 1	178 - 1515	ND
Boscalid	49 - 2555	ND		MGK 264 2	117 - 1003	ND
Carbaryl	43 - 2566	ND		Myclobutanil	55 - 2594	ND
Carbofuran	45 - 2534	ND		Naled	50 - 2469	ND
Chlorantraniliprole	52 - 2601	ND		Oxamyl	44 - 2645	ND
Chlorpyrifos	39 - 2515	ND		Paclobutrazol	49 - 2530	ND
Clofentezine	300 - 2514	ND		Permethrin	290 - 2566	ND
Diazinon	278 - 2558	ND		Phosmet	42 - 2443	ND
Dichlorvos	275 - 2558	ND		Prophos	297 - 2596	ND
Dimethoate	46 - 2577	ND		Propoxur	44 - 2522	ND
E-Fenpyroximate	267 - 2577	ND		Pyridaben	300 - 2562	ND
Etofenprox	46 - 2527	ND		Spinosad A	34 - 1922	ND
Etoxazole	299 - 2470	ND		Spinosad D	66 - 575	ND
Fenoxycarb	43 - 2584	ND		Spiromesifen	282 - 2544	ND
Fipronil	48 - 2565	ND		Spirotetramat	292 - 2583	ND
Flonicamid	49 - 2594	ND		Spiroxamine 1	18 - 964	ND
Fludioxonil	294 - 2592	ND		Spiroxamine 2	27 - 1560	ND
Hexythiazox	42 - 2570	ND		Tebuconazole	285 - 2606	ND
Imazalil	287 - 2597	ND		Thiacloprid	45 - 2593	ND
Imidacloprid	47 - 2629	ND		Thiamethoxam	45 - 2619	ND
Kresoxim-methyl	44 - 2622	ND		Trifloxystrobin	48 - 2543	ND

Final Approval


Karen Winternheimer
01Feb2024
08:45:00 AM MST
PREPARED BY / DATE


Sam Smith
01Feb2024
08:46:00 AM MST
APPROVED BY / DATE

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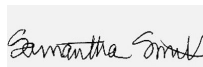
Batch ID or Lot Number: 013024 -HIMJ	Test, Test ID and Methods: Various	Matrix: Unit	Page 4 of 4
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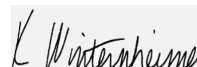
Heavy Metals

Test ID: T000268930
Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.45	ND	
Cadmium	0.05 - 4.62	ND	
Mercury	0.05 - 4.75	ND	
Lead	0.05 - 4.70	ND	

Final Approval


Samantha Smith
02Feb2024
01:35:00 PM MST
PREPARED BY / DATE


Karen Winternheimer
02Feb2024
01:37:00 PM MST
APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/9b49627d-0130-4401-ab33-be2425c4a4bd>

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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