

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


Hightened - Palomarita


Batch ID or Lot Number: 013024 -HIPL	Test: Potency	Reported: 31Jan2024	USDA License: N/A
Matrix: Unit	Test ID: T000269278	Started: 31Jan2024	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD)	Received: 31Jan2024	Status: N/A

Cannabinoids

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.143	0.495	ND	ND	# of Servings = 1, Sample Weight=355g
Cannabichromenic Acid (CBCA)	0.131	0.453	ND	ND	
Cannabidiol (CBD)	0.451	1.455	ND	ND	
Cannabidiolic Acid (CBDA)	0.463	1.492	ND	ND	
Cannabidivarin (CBDV)	0.107	0.344	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.193	0.622	ND	ND	
Cannabigerol (CBG)	0.081	0.281	0.310	0.00	
Cannabigerolic Acid (CBGA)	0.339	1.175	ND	ND	
Cannabinol (CBN)	0.106	0.367	<LOQ	<LOQ	
Cannabinolic Acid (CBNA)	0.232	0.802	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.404	1.400	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.367	1.272	10.440	0.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.325	1.127	ND	ND	
Tetrahydrocannabivarin (THCV)	0.074	0.256	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.287	0.994	ND	ND	
Total Cannabinoids			10.750	0.00	
Total Potential THC			10.440	0.00	
Total Potential CBD			ND	ND	

Final Approval


PREPARED BY / DATE
Sam Smith
31Jan2024
02:58:00 PM MST


APPROVED BY / DATE
Karen Winternheimer
31Jan2024
03:06:00 PM MST



<https://results.botanacor.com/api/v1/coas/uuid/13fa8831-e2db-46df-bc20-37e4967fa178>

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 A2LA Cert #: 4329.02 Chemical; 4329.03 Biological.



Cert #4329.02
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Hightened Palomarita

Batch ID or Lot Number: 013024 -HIPL	Test, Test ID and Methods: Various	Matrix: Unit	Page 2 of 4
Reported: 26Jan2024	Started: 26Jan2024	Received: 26Jan2024	

Microbial Contaminants

Test ID: T000268925

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

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Pesticides


Test ID: T000268924

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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Heavy Metals

Test ID: T000268926
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 Simms
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/085ed0ca-4eb5-493b-a744-7251e0acfb3f>

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.

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