

Prepared for:

Bent Paddle Brewing Co

1912 W Michigan St.
Duluth, MN USA 55806

Puff - Dragonfruit Cloudberry

Batch ID or Lot Number: 062724-PCB	Test, Test ID and Methods: Various	Matrix: Unit	Page 1 of 3
Reported: 25Jun2024	Started: 25Jun2024	Received: 25Jun2024	


Cannabinoids

Test ID: T000285115


Methods: TM14 (HPLC-DAD)

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.126	0.438	ND	ND	# of Servings = 1, Sample Weight=355g
Cannabichromenic Acid (CBCA)	0.115	0.400	ND	ND	
Cannabidiol (CBD)	0.425	1.178	ND	ND	
Cannabidiolic Acid (CBDA)	0.436	1.208	ND	ND	
Cannabidivarin (CBDV)	0.101	0.279	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.182	0.504	ND	ND	
Cannabigerol (CBG)	0.071	0.249	0.400	0.00	
Cannabigerolic Acid (CBGA)	0.299	1.039	ND	ND	
Cannabinol (CBN)	0.093	0.324	<LOQ	<LOQ	
Cannabinolic Acid (CBNA)	0.204	0.709	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.356	1.238	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.323	1.124	9.820	0.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.286	0.996	ND	ND	
Tetrahydrocannabivarin (THCV)	0.065	0.226	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.253	0.879	ND	ND	
Total Cannabinoids			10.220	0.00	
Total Potential THC			9.820	0.00	
Total Potential CBD			ND	ND	

Final Approval

 Karen Winternheimer
25Jun2024
02:17:00 PM MDT

PREPARED BY / DATE

 Sam Smith
25Jun2024
02:22:00 PM MDT

APPROVED BY / DATE


Heavy Metals

Test ID: T000285118

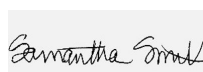
Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.66	ND	
Cadmium	0.05 - 4.56	ND	
Mercury	0.05 - 4.82	ND	
Lead	0.05 - 4.70	ND	

Final Approval

 Karen Winternheimer
26Jun2024
01:48:00 PM MDT

PREPARED BY / DATE

 Sam Smith
26Jun2024
02:00:00 PM MDT

APPROVED BY / DATE

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Pesticides


Test ID: T000285116

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	492 - 2782	ND		Malathion	289 - 2740	ND
Acephate	39 - 2737	ND		Metalaxyl	43 - 2742	ND
Acetamiprid	39 - 2709	ND		Methiocarb	41 - 2732	ND
Azoxystrobin	45 - 2727	ND		Methomyl	42 - 2761	ND
Bifenazate	45 - 2708	ND		MGK 264 1	65 - 1532	ND
Boscalid	39 - 2717	ND		MGK 264 2	97 - 1089	ND
Carbaryl	38 - 2731	ND		Myclobutanil	40 - 2704	ND
Carbofuran	42 - 2702	ND		Naled	43 - 2682	ND
Chlorantraniliprole	38 - 2717	ND		Oxamyl	42 - 2764	ND
Chlorpyrifos	25 - 2744	ND		Paclobutrazol	41 - 2702	ND
Clofentezine	278 - 2710	ND		Permethrin	263 - 2746	ND
Diazinon	278 - 2746	ND		Phosmet	43 - 2608	ND
Dichlorvos	264 - 2725	ND		Prophos	277 - 2740	ND
Dimethoate	41 - 2726	ND		Propoxur	42 - 2701	ND
E-Fenpyroximate	260 - 2843	ND		Pyridaben	265 - 2838	ND
Etofenprox	36 - 2769	ND		Spinosad A	30 - 2070	ND
Etoxazole	254 - 2755	ND		Spinosad D	58 - 687	ND
Fenoxycarb	42 - 2737	ND		Spiromesifen	246 - 2837	ND
Fipronil	37 - 2764	ND		Spirotetramat	294 - 2758	ND
Flonicamid	45 - 2733	ND		Spiroxamine 1	15 - 1020	ND
Fludioxonil	268 - 2689	ND		Spiroxamine 2	24 - 1610	ND
Hexythiazox	34 - 2828	ND		Tebuconazole	303 - 2724	ND
Imazalil	284 - 2776	ND		Thiacloprid	43 - 2760	ND
Imidacloprid	43 - 2744	ND		Thiamethoxam	37 - 2739	ND
Kresoxim-methyl	46 - 2757	ND		Trifloxystrobin	42 - 2725	ND

Final Approval


Sam Smith
27Jun2024
09:09:00 AM MDT
PREPARED BY / DATE


Karen Winternheimer
27Jun2024
09:11:00 AM MDT
APPROVED BY / DATE

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Microbial Contaminants


Test ID: T000285117

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
28Jun2024
10:22:00 AM MDT
PREPARED BY / DATE


Brett Hudson
28Jun2024
04:13:00 PM MDT
APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/92419375-2103-4c4b-8789-209cc04f5506>

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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