

Prepared for:

**Bent Paddle Brewing Co**

1912 W Michigan St.

Duluth, MN USA 55806

## Cheech and Chong Base MM/GT

Batch ID or Lot Number: <b>100523</b>	Test, Test ID and Methods: Various	Matrix: Unit	Page 1 of 4
Reported: <b>03Oct2023</b>	Started: 03Oct2023	Received: 03Oct2023	


### Cannabinoids


Test ID: T000258007

Methods: TM14 (HPLC-DAD)

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.169	0.503	ND	ND	# of Servings = 1, Sample Weight=355g
Cannabichromenic Acid (CBCA)	0.155	0.461	ND	ND	
Cannabidiol (CBD)	0.501	1.292	ND	ND	
Cannabidiolic Acid (CBDA)	0.513	1.325	ND	ND	
Cannabidivarin (CBDV)	0.118	0.306	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.214	0.553	ND	ND	
Cannabigerol (CBG)	0.096	0.286	<LOQ	<LOQ	
Cannabigerolic Acid (CBGA)	0.402	1.195	ND	ND	
Cannabinol (CBN)	0.125	0.373	<LOQ	<LOQ	
Cannabinolic Acid (CBNA)	0.274	0.815	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.479	1.424	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.435	1.293	5.020	0.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.385	1.146	ND	ND	
Tetrahydrocannabivarin (THCV)	0.087	0.260	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.340	1.010	ND	ND	
<b>Total Cannabinoids</b>			<b>5.020</b>	<b>0.00</b>	
Total Potential THC			5.020	0.00	
Total Potential CBD			ND	ND	

### Final Approval

  
 Karen Winternheimer  
 03Oct2023  
 01:38:00 PM MDT  
 PREPARED BY / DATE

  
 Sam Smith  
 03Oct2023  
 01:40:00 PM MDT  
 APPROVED BY / DATE

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### Pesticides


Test ID: T000258008

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	346 - 2757	ND		Malathion	295 - 2760	ND
Acephate	42 - 2746	ND		Metalaxyl	41 - 2728	ND
Acetamiprid	45 - 2715	ND		Methiocarb	47 - 2726	ND
Azoxystrobin	46 - 2708	ND		Methomyl	41 - 2731	ND
Bifenazate	48 - 2725	ND		MGK 264 1	155 - 1703	ND
Boscalid	48 - 2750	ND		MGK 264 2	109 - 1090	ND
Carbaryl	42 - 2724	ND		Myclobutanil	131 - 2721	ND
Carbofuran	43 - 2718	ND		Naled	47 - 2763	ND
Chlorantraniliprole	42 - 2734	ND		Oxamyl	43 - 2714	ND
Chlorpyrifos	47 - 2793	ND		Paclobutrazol	45 - 2736	ND
Clofentezine	281 - 2761	ND		Permethrin	300 - 2735	ND
Diazinon	293 - 2764	ND		Phosmet	47 - 2701	ND
Dichlorvos	269 - 2730	ND		Prophos	285 - 2671	ND
Dimethoate	46 - 2733	ND		Propoxur	43 - 2756	ND
E-Fenpyroximate	307 - 2785	ND		Pyridaben	303 - 2742	ND
Etofenprox	46 - 2774	ND		Spinosad A	30 - 2083	ND
Etoxazole	318 - 2747	ND		Spinosad D	71 - 662	ND
Fenoxycarb	44 - 2689	ND		Spiromesifen	287 - 2776	ND
Fipronil	39 - 2814	ND		Spirotetramat	305 - 2796	ND
Flonicamid	48 - 2742	ND		Spiroxamine 1	20 - 1187	ND
Fludioxonil	317 - 2708	ND		Spiroxamine 2	25 - 1511	ND
Hexythiazox	43 - 2713	ND		Tebuconazole	301 - 2757	ND
Imazalil	284 - 2754	ND		Thiacloprid	44 - 2726	ND
Imidacloprid	43 - 2734	ND		Thiamethoxam	42 - 2747	ND
Kresoxim-methyl	42 - 2745	ND		Trifloxystrobin	43 - 2721	ND

### Final Approval

  
Karen Winternheimer  
05Oct2023  
01:48:00 PM MDT  
PREPARED BY / DATE

  
Sam Smith  
05Oct2023  
01:50:00 PM MDT  
APPROVED BY / DATE

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## Heavy Metals


Test ID: T000258010  
Methods: TM19 (ICP-MS): Heavy Metals

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.60	ND	
Cadmium	0.05 - 4.72	ND	
Mercury	0.05 - 4.68	ND	
Lead	0.05 - 4.65	ND	

## Final Approval

  
Samantha Smith  
05Oct2023  
02:08:00 PM MDT

PREPARED BY / DATE

  
Karen Winternheimer  
05Oct2023  
02:12:00 PM MDT

APPROVED BY / DATE

## Microbial Contaminants


Test ID: T000258009  
Methods: TM25 (PCR) TM24, TM26, TM27 (Culture Plating)

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

## Final Approval

  
Brianne Maillot  
06Oct2023  
11:18:00 AM MDT

PREPARED BY / DATE

  
Eden Thompson-Wright  
06Oct2023  
01:40:00 PM MDT

APPROVED BY / DATE

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<https://results.botanacor.com/api/v1/coas/uuid/1bf56475-bc6e-4923-bdfb-ca9166dafa6>

**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: 10<sup>2</sup> = 100 CFU, 10<sup>3</sup> = 1,000 CFU, 10<sup>4</sup> = 10,000 CFU, 10<sup>5</sup> = 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 Accredited by A2LA. 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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