

Prepared for:

## **Surly Brewing Co**

4811 Dusharme Dr Brooklyn Center, MN USA 55429

## **Cheech & Chong High Ball Raspberry**

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 1 of 6
MT001 Best By: 5/2/25	Various	Finished Product	
Reported: 08Nov2023	Started: 06Nov2023	Received: 06Nov2023	

#### **Mycotoxins**

Test ID: T000261010

Methods: TM18 (UHPLC-QQQ

LCMS/MS): Mycotoxins	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	2.06 - 128.71	ND	N/A
Aflatoxin B1	0.90 - 33.72	ND	
Aflatoxin B2	2.22 - 33.40	ND	
Aflatoxin G1	0.96 - 33.46	ND	
Aflatoxin G2	1.16 - 33.56	ND	
Total Aflatoxins (B1, B2, G1, and C	52)	ND	

#### **Final Approval**

Samantha Smoth

Sam Smith 08Nov2023 10:06:00 AM MST

PREPARED BY / DATE

L Winternheimer

Karen Winternheimer 08Nov2023 10:19:00 AM MST



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#### **Residual Solvents**

Test ID: T000261009

Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	82 - 1641	ND	
Butanes (Isobutane, n-Butane)	157 - 3149	ND	
Methanol	60 - 1202	ND	
Pentane	89 - 1775	ND	
Ethanol	95 - 1894	733	
Acetone	96 - 1916	ND	
Isopropyl Alcohol	104 - 2079	ND	
Hexane	6 - 117	ND	
Ethyl Acetate	97 - 1941	ND	
Benzene	0.2 - 3.9	ND	
Heptanes	94 - 1871	ND	
Toluene	18 - 353	ND	
Xylenes (m,p,o-Xylenes)	128 - 2565	ND	

**Final Approval** 

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Karen Winternheimer 09Nov2023

Samantha Smod 09Nov2023 01:59:00 PM MST

Sam Smith



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## **Surly Brewing Co**

5.250

5.250

ND

0.00

0.00

ND

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#### **Cannabinoids**

Test ID: T000261005					
Methods: TM14 (HPLC-DAD)	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.146	0.503	ND	ND	# of Servings = 1,
Cannabichromenic Acid (CBCA)	0.133	0.460	ND	ND	Sample
Cannabidiol (CBD)	0.503	1.324	ND	ND	Weight=355g
Cannabidiolic Acid (CBDA)	0.516	1.358	ND	ND	
Cannabidivarin (CBDV)	0.119	0.313	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.215	0.567	ND	ND	
Cannabigerol (CBG)	0.083	0.286	<loq< td=""><td><loq< td=""><td></td></loq<></td></loq<>	<loq< td=""><td></td></loq<>	
Cannabigerolic Acid (CBGA)	0.346	1.195	ND	ND	
Cannabinol (CBN)	0.108	0.373	ND	ND	
Cannabinolic Acid (CBNA)	0.236	0.815	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.412	1.423	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.374	1.293	5.250	0.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.331	1.145	ND	ND	
Tetrahydrocannabivarin (THCV)	0.075	0.260	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.292	1.010	ND	ND	

**Final Approval** 

Karen Winternheimer 09Nov2023 Writenheumer 09:14:00 AM MST

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**Total Cannabinoids** 

Total Potential THC

Total Potential CBD

Sawantha Small 09Nov2023 09:16:00 AM MST

APPROVED BY / DATE

Sam Smith



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#### **Microbial**

#### **Contaminants**

Test ID: T000261007

Methods: TM25 (PCR) TM24, TM26,			Quantitation		
TM27 (Culture Plating)	Method	LOD	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	- Torcigir matter
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**

Eden Thompson

Eden Thompson-Wright 09Nov2023 10:50:00 AM MST

Buanne Maillot 11.33.00 AM

Brianne Maillot 09Nov2023 11:33:00 AM MST

PREPARED BY / DATE



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#### **Pesticides**

Test ID: T000261006 Methods: TM17

(LC-QQ LC MS/MS) <b>Dynamic Range</b> (ppb)		Result (ppb)
Abamectin	331 - 2667	ND
Acephate	40 - 2783	ND
Acetamiprid	42 - 2733	ND
Azoxystrobin	45 - 2699	ND
Bifenazate	42 - 2750	ND
Boscalid	40 - 2737	ND
Carbaryl	39 - 2640	ND
Carbofuran	44 - 2678	ND
Chlorantraniliprole	43 - 2698	ND
Chlorpyrifos	43 - 2706	ND
Clofentezine	288 - 2730	ND
Diazinon	284 - 2678	ND
Dichlorvos	290 - 2795	ND
Dimethoate	43 - 2719	ND
E-Fenpyroximate	284 - 2746	ND
Etofenprox	47 - 2720	ND
Etoxazole	288 - 2626	ND
Fenoxycarb	46 - 2652	ND
Fipronil	49 - 2780	ND
Flonicamid	46 - 2805	ND
Fludioxonil	301 - 2732	ND
Hexythiazox	43 - 2781	ND
Imazalil	267 - 2711	ND
Imidacloprid	50 - 2788	ND
Kresoxim-methyl	49 - 2705	ND

	<b>Dynamic Range</b> (ppb)	Result (ppb)
Malathion	286 - 2685	ND
Metalaxyl	43 - 2718	ND
Methiocarb	45 - 2694	ND
Methomyl	41 - 2768	ND
MGK 264 1	166 - 1591	ND
MGK 264 2	104 - 1084	ND
Myclobutanil	54 - 2688	ND
Naled	44 - 2649	ND
Oxamyl	41 - 2793	ND
Paclobutrazol	43 - 2664	ND
Permethrin	284 - 2791	ND
Phosmet	41 - 2577	ND
Prophos	301 - 2715	ND
Propoxur	42 - 2685	ND
Pyridaben	289 - 2780	ND
Spinosad A	31 - 2077	ND
Spinosad D	64 - 671	ND
Spiromesifen	278 - 2762	ND
Spirotetramat	277 - 2736	ND
Spiroxamine 1	16 - 1010	ND
Spiroxamine 2	26 - 1601	ND
Tebuconazole	288 - 2801	ND
Thiacloprid	44 - 2769	ND
Thiamethoxam	43 - 2808	ND
Trifloxystrobin	44 - 2705	ND

**Final Approval** 

PREPARED BY / DATE

Karen Winternheimer 10Nov2023

MUNHUMP 09:29:00 AM MST

Sawantha Smot 10Nov2023 09:32:00 AM MST

Sam Smith



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#### **Heavy Metals**

Test ID: T000261008

Methods: TM19 (ICP-MS): Heavy

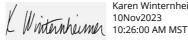
Metals	<b>Dynamic Range</b> (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.08	ND	
Cadmium	0.05 - 4.55	ND	
Mercury	0.05 - 4.55	ND	
Lead	0.05 - 4.55	ND	

#### **Final Approval**

Samantha Smil

Sam Smith 10Nov2023 10:21:00 AM MST

PREPARED BY / DATE



Karen Winternheimer 10Nov2023

APPROVED BY / DATE



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#### **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-THC + (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: 10^2 = 100 CFU, 10^3 = 1,000 CFU, 10^4 = 10,000 CFU, 10^5 = 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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