

## Prepared for: **Surly Brewing Co**

4811 Dusharme Dr Brooklyn Center, MN USA 55429

# Surly Double Take POG 16oz,10mg

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 1 of 5
<b>MT005 :: 23318 (08:30)</b>	Various	Finished Product	
Reported:	Started:	Received:	
18Nov2023	17Nov2023	16Nov2023	

### **Residual Solvents**

Test ID: T000262117			
Methods: TM04 (GC-MS): Residual			
Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	81 - 1622	ND	
Butanes (Isobutane, n-Butane)	160 - 3197	ND	
Methanol	53 - 1063	ND	
Pentane	82 - 1641	ND	
Ethanol	85 - 1690	826	
Acetone	84 - 1689	ND	
Isopropyl Alcohol	92 - 1843	ND	
Hexane	5 - 105	ND	
Ethyl Acetate	87 - 1741	ND	
Benzene	0.2 - 3.5	ND	
Heptanes	83 - 1669	ND	
Toluene	16 - 312	ND	
Xylenes (m,p,o-Xylenes)	114 - 2274	ND	

#### **Final Approval**

Sam Smith Samantha Smith 19Nov2023 06:57:00 PM MST PREPARED BY / DATE

APPROVED BY / DATE

Karen Winternheimer 19Nov2023 Manhemen 06:59:00 PM MST



Prepared for:

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4811 Dusharme Dr Brooklyn Center, MN USA 55429

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#### Cannabinoids + ID. TOOOCC1112

Methods: TM14 (HPLC-DAD)	LOD (mg)	<b>LOQ</b> (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.183	0.660	ND	ND	# of Servings = 1
Cannabichromenic Acid (CBCA)	0.168	0.603	ND	ND	Sample
Cannabidiol (CBD)	0.576	1.536	<loq< td=""><td><loq< td=""><td>Weight=460g</td></loq<></td></loq<>	<loq< td=""><td>Weight=460g</td></loq<>	Weight=460g
Cannabidiolic Acid (CBDA)	0.591	1.575	ND	ND	
Cannabidivarin (CBDV)	0.136	0.363	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.246	0.657	ND	ND	
Cannabigerol (CBG)	0.104	0.375	ND	ND	
Cannabigerolic Acid (CBGA)	0.435	1.566	ND	ND	
Cannabinol (CBN)	0.136	0.489	ND	ND	
Cannabinolic Acid (CBNA)	0.297	1.068	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.519	1.865	<loq< td=""><td><loq< td=""><td></td></loq<></td></loq<>	<loq< td=""><td></td></loq<>	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.471	1.694	9.320	0.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.417	1.501	ND	ND	
Tetrahydrocannabivarin (THCV)	0.095	0.341	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.368	1.324	ND	ND	
Total Cannabinoids			9.320	0.00	
Total Potential THC			9.320	0.00	
Total Potential CBD			0.000	0.00	

#### **Final Approval**

Samantha Small 20Nov2023 03:36:00 PM MST

Sam Smith

PREPARED BY / DATE

Karen Winternheimer 20Nov2023 Waterheimen 03:38:00 PM MST

APPROVED BY / DATE



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## Microbial **Contaminants**

		Quantitation		
Method	LOD	Range	Result	Notes
TM25: PCR	10 <sup>0</sup> CFU/25g	NA	Absent	Free from visual mold, mildew, and - foreign matter
TM25: PCR	10 <sup>0</sup> CFU/25g	NA	Absent	
TM24: Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup>	None Detected	-
TM26: Culture Plating	10 <sup>2</sup> CFU/g	1.0x10 <sup>3</sup> - 1.5x10 <sup>5</sup>	None Detected	
TM27: Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup>	None Detected	
	TM25: PCR TM25: PCR TM24: Culture Plating TM26: Culture Plating TM27: Culture	TM25: PCR10° CFU/25gTM25: PCR10° CFU/25gTM24: Culture Plating10° CFU/gTM26: Culture Plating10° CFU/gTM27: Culture 10° CFU/g10° CFU/g	Method LOD Range   TM25: PCR 10 <sup>0</sup> CFU/25g NA   TM25: PCR 10 <sup>0</sup> CFU/25g NA   TM25: PCR 10 <sup>0</sup> CFU/25g NA   TM24: Culture Plating 10 <sup>1</sup> CFU/g 1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup> TM26: Culture Plating 10 <sup>2</sup> CFU/g 1.0x10 <sup>3</sup> - 1.5x10 <sup>5</sup> TM27: Culture 10 <sup>1</sup> CFU/g 1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup>	MethodLODRangeResultTM25: PCR10° CFU/25gNAAbsentTM25: PCR10° CFU/25gNAAbsentTM24: Culture Plating10° CFU/g1.0x10² - 1.5x10⁴None DetectedTM26: Culture Plating10² CFU/g1.0x10³ - 1.5x10⁵None DetectedTM27: Culture TM27: Culture10° CFU/g1.0x10² - 1.5x10⁴None Detected

#### **Final Approval**



10:09:00 AM MST



Brett Hudson 20Nov2023 12:21:00 PM MST

PREPARED BY / DATE

**Heavy Metals** 

Test ID: T000262116 Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.30	ND	
Cadmium	0.04 - 4.47	ND	•
Mercury	0.05 - 4.54	ND	•
Lead	0.06 - 5.81	ND	•

#### **Final Approval**

Samanthe mode PREPARED BY / DATE

Sam Smith 21Nov2023 01:57:00 PM MST

Karen Winternheimer 21Nov2023 Matenheumen 02:04:00 PM MST

APPROVED BY / DATE

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# Surly Double Take POG 16oz,10mg

# CERTIFICATE OF ANALYSIS

## Prepared for:

## **Surly Brewing Co**

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Batch ID or Lot Number: MT005 :: 23318 (08:30)	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 4 of 5	
Reported: <b>18Nov2023</b>	Started: 17Nov2023	Received: 16Nov2023		

### **Pesticides**

Test ID: T000262114

Methods: TM17		
(LC-QQ LC MS/MS)	Dynamic Range (ppb)	<b>Result</b> (ppb)
Abamectin	308 - 2713	ND
Acephate	58 - 2734	ND
Acetamiprid	59 - 2660	ND
Azoxystrobin	63 - 2666	ND
Bifenazate	60 - 2672	ND
Boscalid	64 - 2660	ND
Carbaryl	60 - 2693	ND
Carbofuran	60 - 2702	ND
Chlorantraniliprole	57 - 2685	ND
Chlorpyrifos	49 - 2768	ND
Clofentezine	282 - 2707	ND
Diazinon	294 - 2688	ND
Dichlorvos	251 - 2742	ND
Dimethoate	59 - 2686	ND
E-Fenpyroximate	287 - 2789	ND
Etofenprox	62 - 2756	ND
Etoxazole	291 - 2695	ND
Fenoxycarb	65 - 2675	ND
Fipronil	35 - 2735	ND
Flonicamid	66 - 2756	ND
Fludioxonil	314 - 2683	ND
Hexythiazox	56 - 2796	ND
Imazalil	286 - 2692	ND
Imidacloprid	61 - 2769	ND
Kresoxim-methyl	60 - 2746	ND

	<b>Dynamic Range</b> (ppb)	Result (ppb)
Malathion	294 - 2663	ND
Metalaxyl	61 - 2723	ND
Methiocarb	62 - 2711	ND
Methomyl	58 - 2730	ND
MGK 264 1	166 - 1630	ND
MGK 264 2	109 - 1067	ND
Myclobutanil	25 - 2723	ND
Naled	63 - 2709	ND
Oxamyl	57 - 2723	ND
Paclobutrazol	62 - 2670	ND
Permethrin	288 - 2797	ND
Phosmet	63 - 2568	ND
Prophos	293 - 2700	ND
Propoxur	61 - 2689	ND
Pyridaben	297 - 2760	ND
Spinosad A	45 - 2099	ND
Spinosad D	66 - 665	ND
Spiromesifen	288 - 2753	ND
Spirotetramat	299 - 2717	ND
Spiroxamine 1	22 - 1024	ND
Spiroxamine 2	34 - 1587	ND
Tebuconazole	274 - 2692	ND
Thiacloprid	60 - 2688	ND
Thiamethoxam	61 - 2732	ND
Trifloxystrobin	62 - 2703	ND

#### **Final Approval**

Somenthe Smil
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Sam Smith 24Nov2023 11:10:00 AM MST

APPROVED BY / DATE

Karen Winternheimer 24Nov2023 Mtenhemmen 11:13:00 AM MST

PREPARED BY / DATE



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### Mycotoxins

Test ID: T000262118 Methods: TM18 (UHPLC-QQQ				
LCMS/MS): Mycotoxins	Dynamic Range (ppb)	Result (ppb)	Notes	
Ochratoxin A	2.11 - 123.26	ND	N/A	
Aflatoxin B1	0.86 - 29.86	ND		
Aflatoxin B2	0.86 - 30.12	ND		
Aflatoxin G1	0.92 - 30.30	ND		
Aflatoxin G2	1.01 - 30.45	ND		
Total Aflatoxins (B1, B2, G1, and G2)		ND		

#### **Final Approval**

Sam Smith 29Nov2023 Samanthe Smoth 02:03:00 PM MST PREPARED BY / DATE

APPROVED BY / DATE

Karen Winternheimer 29Nov2023 MEMPERMEN 02:08:00 PM MST



#### Definitions

https://results.botanacor.com/api/v1/coas/uuid/f3561bb5-1d97-48cd-81d1-7fcf0b456621

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:  $10^2 = 100$  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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