

Prepared for:  
**Duluth Cider, LLC**

2307 W Superior St  
Duluth, MN USA 55806

## Greenstoned Green Apple Gummies

Batch ID or Lot Number: <b>0223_01</b>	Test, Test ID and Methods: Various	Matrix: Unit	Page 1 of 3
Reported: <b>15Feb2023</b>	Started: 13Feb2023	Received: 10Feb2023	


## Cannabinoids

Test ID: T000234982


Methods: TM14 (HPLC-DAD)

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.469	1.331	ND	ND	# of Servings = 1, Sample Weight=5.7g
Cannabichromenic Acid (CBCA)	0.429	1.218	ND	ND	
Cannabidiol (CBD)	1.227	3.891	ND	ND	
Cannabidiolic Acid (CBDA)	1.259	3.991	ND	ND	
Cannabidivarin (CBDV)	0.290	0.920	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.525	1.665	ND	ND	
Cannabigerol (CBG)	0.266	0.756	ND	ND	
Cannabigerolic Acid (CBGA)	1.113	3.159	ND	ND	
Cannabinol (CBN)	0.347	0.986	ND	ND	
Cannabinolic Acid (CBNA)	0.759	2.156	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	1.326	3.764	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	1.204	3.418	5.040	0.90	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	1.067	3.029	ND	ND	
Tetrahydrocannabivarin (THCV)	0.242	0.687	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.941	2.671	ND	ND	
<b>Total Cannabinoids</b>			<b>5.040</b>	<b>0.90</b>	
Total Potential THC			5.040	0.90	
Total Potential CBD			ND	ND	

## Final Approval

 Sam Smith  
16Feb2023  
06:14:00 PM MST

PREPARED BY / DATE

 Karen Winternheimer  
16Feb2023  
06:17:00 PM MST

APPROVED BY / DATE


## Heavy Metals

Test ID: T000234985


Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.89	ND	
Cadmium	0.05 - 4.74	ND	
Mercury	0.04 - 4.30	ND	
Lead	0.04 - 3.87	ND	

## Final Approval

 Sam Smith  
17Feb2023  
01:27:00 PM MST

PREPARED BY / DATE

 Karen Winternheimer  
17Feb2023  
01:32:00 PM MST

APPROVED BY / DATE

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## Pesticides

Test ID: T000234983

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)
Abamectin	297 - 2792	ND
Acephate	41 - 2796	ND
Acetamiprid	44 - 2777	ND
Azoxystrobin	45 - 2726	ND
Bifenazate	41 - 2722	ND
Boscalid	41 - 2792	ND
Carbaryl	41 - 2718	ND
Carbofuran	45 - 2698	ND
Chlorantraniliprole	41 - 2742	ND
Chlorpyrifos	38 - 2737	ND
Clofentezine	273 - 2731	ND
Diazinon	291 - 2730	ND
Dichlorvos	263 - 2800	ND
Dimethoate	41 - 2748	ND
E-Fenpyroximate	294 - 2737	ND
Etofenprox	44 - 2698	ND
Etoxazole	309 - 2713	ND
Fenoxycarb	45 - 2730	ND
Fipronil	42 - 2729	ND
Flonicamid	50 - 2770	ND
Fludioxonil	307 - 2813	ND
Hexythiazox	42 - 2732	ND
Imazalil	291 - 2750	ND
Imidacloprid	43 - 2771	ND
Kresoxim-methyl	40 - 2749	ND

	Dynamic Range (ppb)	Result (ppb)
Malathion	302 - 2702	ND
Metalaxyl	41 - 2735	ND
Methiocarb	42 - 2747	ND
Methomyl	40 - 2767	ND
MGK 264 1	169 - 1608	ND
MGK 264 2	110 - 1130	ND
Myclobutanil	40 - 2752	ND
Naled	44 - 2720	ND
Oxamyl	43 - 2765	ND
Paclobutrazol	44 - 2698	ND
Permethrin	288 - 2744	ND
Phosmet	42 - 2720	ND
Prophos	295 - 2742	ND
Propoxur	44 - 2713	ND
Pyridaben	310 - 2696	ND
Spinosad A	35 - 2226	ND
Spinosad D	52 - 493	ND
Spiromesifen	285 - 2749	ND
Spirotetramat	289 - 2741	ND
Spiroxamine 1	18 - 1159	ND
Spiroxamine 2	4 - 1599	ND
Tebuconazole	289 - 2696	ND
Thiacloprid	43 - 2750	ND
Thiamethoxam	41 - 2792	ND
Trifloxystrobin	46 - 2706	ND

## Final Approval



Karen Winterheimer  
17Feb2023  
01:56:00 PM MST

PREPARED BY / DATE



Sam Smith  
17Feb2023  
01:59:00 PM MST

APPROVED BY / DATE

Prepared for:  
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Duluth, MN USA 55806

## Greenstoned Green Apple Gummies

Batch ID or Lot Number: <b>0223_01</b>	Test, Test ID and Methods: Various	Matrix: Unit	Page 3 of 3
Reported: <b>15Feb2023</b>	Started: 13Feb2023	Received: 10Feb2023	

## Microbial Contaminants

Test ID: T000234984


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
<i>Salmonella</i>	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  
19Feb2023  
04:16:00 PM MST

PREPARED BY / DATE

  
Eden Thompson-Wright  
20Feb2023  
09:40:00 AM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/6424085b-db69-4df0-9efb-7e3999a0b163>

## 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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