SC Labs®
Formerly Botanacor Labs

CERTIFICATE OF ANALYSIS

Prepared for:
Minneapolis Cider Co.
701 SE 9th St.
Minneapolis, MN USA 55414

TM530_1

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 1 of 3
TM530	Various	Finished Product	
Reported:	**Started:**	**Received:**	
12Oct2023	10Oct2023	10Oct2023	

Pesticides

Test ID: T000258336
Methods: TM17

(LC-QQ LC MS/MS)	**Dynamic Range** (ppb)	**Result** (ppb)		**Dynamic Range** (ppb)	**Result** (ppb)
Abamectin	280 - 2649	ND	Malathion	286 - 2705	ND
Acephate	40 - 2832	ND	Metalaxyl	43 - 2672	ND
Acetamiprid	42 - 2782	ND	Methiocarb	42 - 2673	ND
Azoxystrobin	46 - 2660	ND	Methomyl	39 - 2801	ND
Bifenazate	43 - 2596	ND	MGK 264 1	155 - 1660	ND
Boscalid	51 - 2622	ND	MGK 264 2	103 - 1084	ND
Carbaryl	41 - 2737	ND	Myclobutanil	69 - 2593	ND
Carbofuran	43 - 2716	ND	Naled	43 - 2743	ND
Chlorantraniliprole	49 - 2658	ND	Oxamyl	41 - 2797	ND
Chlorpyrifos	49 - 2747	ND	Paclobutrazol	48 - 2646	ND
Clofentezine	283 - 2777	ND	Permethrin	278 - 2784	ND
Diazinon	283 - 2672	ND	Phosmet	48 - 2613	ND
Dichlorvos	280 - 2807	ND	Prophos	296 - 2664	ND
Dimethoate	42 - 2752	ND	Propoxur	42 - 2749	ND
E-Fenpyroximate	288 - 2745	ND	Pyridaben	285 - 2739	ND
Etofenprox	43 - 2747	ND	Spinosad A	32 - 2094	ND
Etoxazole	282 - 2718	ND	Spinosad D	64 - 662	ND
Fenoxycarb	39 - 2613	ND	Spiromesifen	261 - 2758	ND
Fipronil	56 - 2671	ND	Spirotetramat	303 - 2657	ND
Flonicamid	54 - 2787	ND	Spiroxamine 1	18 - 1176	ND
Fludioxonil	309 - 2640	ND	Spiroxamine 2	23 - 1496	ND
Hexythiazox	44 - 2768	ND	Tebuconazole	269 - 2646	ND
Imazalil	272 - 2688	ND	Thiacloprid	42 - 2755	ND
Imidacloprid	37 - 2824	ND	Thiamethoxam	42 - 2767	ND
Kresoxim-methyl	47 - 2721	ND	Trifloxystrobin	44 - 2708	ND

Final Approval

Samantha Smith
Sam Smith
12Oct2023
09:03:00 AM MDT
PREPARED BY / DATE

K Winternheimer
Karen Winternheimer
12Oct2023
09:06:00 AM MDT
APPROVED BY / DATE

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Cannabinoids

Test ID: T000258335
Methods: TM14 (HPLC-DAD)

	LOD (mg)	**LOQ** (mg)	**Result** (mg)	**Result** (mg/g)	**Notes**
Cannabichromene (CBC)	0.134	0.460	ND	ND	# of Servings = 1, Sample Weight=355g
Cannabichromenic Acid (CBCA)	0.122	0.420	ND	ND	
Cannabidiol (CBD)	0.421	1.274	ND	ND	
Cannabidiolic Acid (CBDA)	0.432	1.307	ND	ND	
Cannabidivarin (CBDV)	0.100	0.301	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.180	0.545	ND	ND	
Cannabigerol (CBG)	0.076	0.261	ND	ND	
Cannabigerolic Acid (CBGA)	0.318	1.091	ND	ND	
Cannabinol (CBN)	0.099	0.341	ND	ND	
Cannabinolic Acid (CBNA)	0.217	0.744	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.378	1.300	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.344	1.181	5.400	0.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.304	1.046	ND	ND	
Tetrahydrocannabivarin (THCV)	0.069	0.237	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.269	0.923	ND	ND	
Total Cannabinoids			**5.400**	**0.00**	
Total Potential THC			5.400	0.00	
Total Potential CBD			ND	ND	

Final Approval

Sam Smith
12Oct2023
08:38:00 AM MDT
PREPARED BY / DATE

Karen Winternheimer
12Oct2023
08:41:00 AM MDT
APPROVED BY / DATE

Heavy Metals

Test ID: T000258337
Methods: TM19 (ICP-MS): Heavy Metals

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Arsenic	0.04 - 4.50	ND	
Cadmium	0.05 - 4.70	ND	
Mercury	0.05 - 4.72	ND	
Lead	0.05 - 4.78	ND	

Final Approval

Sam Smith
12Oct2023
01:38:00 PM MDT
PREPARED BY / DATE

Karen Winternheimer
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https://results.botanacor.com/api/v1/coas/uuid/654a567a-5e3b-439b-b006-596395f4a995

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: 10^2 = 100 CFU, 10^3 = 1,000 CFU, 10^4 = 10,000 CFU, 10^5 = 100,000 CFU.

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