

Happy Clam

Prepared for:
Quim

Batch ID or Lot Number: HC20220430HC	Test: Potency	Reported: 07Jun2022	USDA License: N/A
Matrix: Unit	Test ID: T000206954	Started: 17May2022	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD)	Received: 16May2022	Status: N/A

Cannabinoids

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	1.661	5.691	ND	ND	
Cannabichromenic Acid (CBCA)	1.519	5.206	ND	ND	
Cannabidiol (CBD)	4.910	15.461	15.990	1.60	
Cannabidiolic Acid (CBDA)	5.036	15.857	ND	ND	
Cannabidivarin (CBDV)	1.161	3.657	ND	ND	
Cannabidivarinic Acid (CBDVA)	2.101	6.615	ND	ND	
Cannabigerol (CBG)	0.943	3.231	ND	ND	
Cannabigerolic Acid (CBGA)	3.942	13.508	ND	ND	
Cannabinol (CBN)	1.230	4.216	ND	ND	
Cannabinolic Acid (CBNA)	2.690	9.216	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	4.697	16.093	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	4.265	14.616	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	3.779	12.950	ND	ND	
Tetrahydrocannabivarin (THCV)	0.858	2.939	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	3.333	11.422	ND	ND	
Total Cannabinoids			15.990	1.60	
Total Potential THC			ND	ND	
Total Potential CBD			15.990	1.60	

Final Approval



Kayla Phye
07Jun2022
10:40:00 AM MDT

PREPARED BY / DATE



Courtney Richards
08Jun2022
08:50:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/01217c92-28bb-4150-83f4-f07f56eb3aa6>

Definitions
% = % (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)).

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC 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 Botanacor Laboratories, LLC. ISO/IEC 17025:2017 Accredited by A2LA.



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Prepared for:
Quim**Happy Clam**



Batch ID or Lot Number: QR20220430HC	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 1 of 4
Reported: 03Jun2022	Started: 23May2022	Received: 23May2022	

**Microbial
Contaminants**

Test ID: T000208024

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

	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 ⁰ CFU/g	NA	Absent	
<i>Salmonella</i>	TM25: PCR	10 ⁰ CFU/g	NA	Absent	
Total Yeast and Mold*	TM24: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	<LLOQ	
Total Aerobic Count*	TM26: Culture Plating	10 ² CFU/g	1.0x10 ³ - 1.5x10 ⁵	None Detected	
Total Coliforms*	TM27: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	

Final Approval
Sarah Henning
03Jun2022
09:44:00 AM MDT
PREPARED BY / DATE
Carly Bader
03Jun2022
09:50:00 AM MDT
APPROVED BY / DATE**Mycotoxins**

Test ID: T000208027

Methods: TM18 (UHPLC-QQQ
LCMS/MS): Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	3.75 - 128.23	ND	
Aflatoxin B1	1.12 - 33.82	4.90	
Aflatoxin B2	1.28 - 33.92	ND	
Aflatoxin G1	1.22 - 33.65	ND	
Aflatoxin G2	0.99 - 33.59	ND	
Total Aflatoxins (B1, B2, G1, and G2)		4.90	

Final Approval
Kayla Phye
07Jun2022
12:54:00 PM MDT
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Courtney Richards
08Jun2022
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Batch ID or Lot Number: QR20220430HC	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 2 of 4
Reported: 03Jun2022	Started: 23May2022	Received: 23May2022	

Heavy Metals

Test ID: T000208025

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.18	ND	
Cadmium	0.04 - 4.50	ND	
Mercury	0.04 - 4.36	ND	
Lead	0.04 - 3.51	ND	

Final ApprovalKayla Phye
07Jun2022
01:34:00 PM MDT

PREPARED BY / DATE

Courtney Richards
08Jun2022
07:43:00 PM MDT

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Prepared for:
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Batch ID or Lot Number: QR20220430HC	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 3 of 4
Reported: 03Jun2022	Started: 23May2022	Received: 23May2022	

Pesticides

Test ID: T000208023
Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	292 - 2610	ND		Malathion	288 - 2746	ND
Acephate	45 - 2852	ND		Metalaxyl	40 - 2745	ND
Acetamiprid	42 - 2798	ND		Methiocarb	43 - 2734	ND
Azoxystrobin	42 - 2736	ND		Methomyl	44 - 2845	ND
Bifenazate	37 - 2744	ND		MGK 264 1	183 - 1634	ND
Boscalid	45 - 2695	ND		MGK 264 2	124 - 1133	ND
Carbaryl	40 - 2737	ND		Myclobutanil	42 - 2756	ND
Carbofuran	42 - 2727	ND		Naled	40 - 2784	ND
Chlorantraniliprole	56 - 2718	ND		Oxamyl	42 - 2808	ND
Chlorpyrifos	37 - 2755	ND		Paclobutrazol	42 - 2730	ND
Clofentezine	275 - 2752	ND		Permethrin	297 - 2728	ND
Diazinon	278 - 2760	ND		Phosmet	42 - 2738	ND
Dichlorvos	289 - 2803	ND		Prophos	305 - 2755	ND
Dimethoate	45 - 2805	ND		Propoxur	42 - 2746	ND
E-Fenpyroximate	280 - 2807	ND		Pyridaben	292 - 2745	ND
Etofenprox	40 - 2727	ND		Spinosad A	34 - 2265	ND
Etoxazole	298 - 2708	ND		Spinosad D	52 - 492	ND
Fenoxycarb	46 - 2756	ND		Spiromesifen	285 - 2762	ND
Fipronil	48 - 2674	ND		Spirotetramat	281 - 2776	ND
Flonicamid	56 - 2855	ND		Spiroxamine 1	18 - 1176	ND
Fludioxonil	298 - 2746	ND		Spiroxamine 2	25 - 1556	ND
Hexythiazox	48 - 2773	ND		Tebuconazole	296 - 2739	ND
Imazalil	285 - 2778	ND		Thiacloprid	43 - 2793	ND
Imidacloprid	46 - 2784	ND		Thiamethoxam	43 - 2844	ND
Kresoxim-methyl	52 - 2743	ND		Trifloxystrobin	40 - 2753	ND

Final Approval


 Kayla Phye
 07Jun2022
 10:25:00 AM MDT
 PREPARED BY / DATE


 Courtney Richards
 08Jun2022
 08:28:00 PM MDT
 APPROVED BY / DATE

Happy ClamPrepared for:
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Batch ID or Lot Number: QR20220430HC	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 4 of 4
Reported: 03Jun2022	Started: 23May2022	Received: 23May2022	

Residual Solvents

Test ID: T000208026

Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	75 - 1503	ND	
Butanes (Isobutane, n-Butane)	156 - 3118	ND	
Methanol	60 - 1208	ND	
Pentane	86 - 1730	ND	
Ethanol	84 - 1670	ND	
Acetone	97 - 1937	ND	
Isopropyl Alcohol	96 - 1918	ND	
Hexane	6 - 121	ND	
Ethyl Acetate	98 - 1952	ND	
Benzene	0.2 - 4.2	ND	
Heptanes	99 - 1982	ND	
Toluene	18 - 357	ND	
Xylenes (m,p,o-Xylenes)	130 - 2593	ND	

Final Approval
PREPARED BY / DATE
Kayla Phye
07Jun2022
01:28:00 PM MDT
APPROVED BY / DATE
Courtney Richards
08Jun2022
03:46:00 PM MDT<https://results.botanacor.com/api/v1/coas/uuid/6bcaf49b-96ce-4fca-a480-6a181f06cfc5>**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: 10² = 100 CFU, 10³ = 1,000 CFU, 10⁴ = 10,000 CFU, 10⁵ = 100,000 CFU.

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