SC Labs®
Formerly Botanacor Labs

CERTIFICATE OF ANALYSIS

Prepared for:
DEFY LLC
700 N. Colorado Blvd
Denver, CO USA 80206

Recover CBD Gummies - Mixed Berry

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 1 of 2
Lot: 277-1331	Various	Unit	
Reported:	Started:	Received:	
08May2023	08May2023	05May2023	

Cannabinoids

Test ID: T000243457

Methods: TM14 (HPLC-DAD)	**LOD** (mg)	**LOQ** (mg)	**Result** (mg)	**Result** (mg/g)	**Notes**
Cannabichromene (CBC)	0.408	1.198	ND	ND	# of Servings = 1, Sample Weight=5g
Cannabichromenic Acid (CBCA)	0.373	1.096	ND	ND	
Cannabidiol (CBD)	1.223	3.134	29.840	6.00	
Cannabidiolic Acid (CBDA)	1.254	3.215	ND	ND	
Cannabidivarin (CBDV)	0.289	0.741	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.523	1.341	ND	ND	
Cannabigerol (CBG)	0.232	0.680	ND	ND	
Cannabigerolic Acid (CBGA)	0.969	2.844	ND	ND	
Cannabinol (CBN)	0.302	0.888	ND	ND	
Cannabinolic Acid (CBNA)	0.661	1.941	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	1.154	3.388	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	1.048	3.077	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.929	2.727	ND	ND	
Tetrahydrocannabivarin (THCV)	0.211	0.619	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.819	2.405	ND	ND	
Total Cannabinoids			**29.840**	**6.00**	
Total Potential THC			ND	ND	
Total Potential CBD			29.840	6.00	

Final Approval

Sam Smith
08May2023
01:46:00 PM MDT
PREPARED BY / DATE

Karen Winternheimer
08May2023
01:50:00 PM MDT
APPROVED BY / DATE

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Microbial Contaminants

Test ID: T000243458
Methods: TM25 (PCR) TM24, TM26, TM27 (Culture Plating)

	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10^0 CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
Salmonella	TM25: PCR	10^0 CFU/25g	NA	Absent	
Total Yeast and Mold*	TM24: Culture Plating	10^1 CFU/g	$1.0x10^2$ - $1.5x10^4$	None Detected	
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

Brett Hudson
11May2023
01:49:00 PM MDT
PREPARED BY / DATE

Eden Thompson-Wright
11May2023
02:04:00 PM MDT
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/067fc67d-bb1a-454e-a29f-09f05c19de94

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.

Cert #4329.02
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Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 1 of 4
Lot: 277-1331	Various	Concentrate	
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11May2023	10May2023	10May2023	

Pesticides

Test ID: T000243697
Methods: TM17

(LC-QQ LC MS/MS)	**Dynamic Range** (ppb)	**Result** (ppb)		**Dynamic Range** (ppb)	**Result** (ppb)
Abamectin	378 - 2769	ND	Malathion	287 - 2799	ND
Acephate	43 - 2754	ND	Metalaxyl	38 - 2811	ND
Acetamiprid	40 - 2768	ND	Methiocarb	44 - 2678	ND
Azoxystrobin	42 - 2784	ND	Methomyl	40 - 2805	ND
Bifenazate	40 - 2782	ND	MGK 264 1	168 - 1670	ND
Boscalid	42 - 2628	ND	MGK 264 2	112 - 1086	ND
Carbaryl	43 - 2760	ND	Myclobutanil	40 - 2671	ND
Carbofuran	43 - 2732	ND	Naled	45 - 2772	ND
Chlorantraniliprole	43 - 2646	ND	Oxamyl	41 - 2799	ND
Chlorpyrifos	44 - 2784	ND	Paclobutrazol	43 - 2746	ND
Clofentezine	275 - 2759	ND	Permethrin	293 - 2838	ND
Diazinon	292 - 2802	ND	Phosmet	40 - 2782	ND
Dichlorvos	285 - 2827	ND	Prophos	299 - 2688	ND
Dimethoate	40 - 2771	ND	Propoxur	43 - 2750	ND
E-Fenpyroximate	306 - 2809	ND	Pyridaben	316 - 2744	ND
Etofenprox	42 - 2769	ND	Spinosad A	32 - 2092	ND
Etoxazole	318 - 2742	ND	Spinosad D	66 - 670	ND
Fenoxycarb	28 - 2816	ND	Spiromesifen	293 - 2785	ND
Fipronil	66 - 2797	ND	Spirotetramat	287 - 2858	ND
Flonicamid	46 - 2843	ND	Spiroxamine 1	18 - 1197	ND
Fludioxonil	302 - 2682	ND	Spiroxamine 2	25 - 1510	ND
Hexythiazox	41 - 2779	ND	Tebuconazole	288 - 2788	ND
Imazalil	277 - 2819	ND	Thiacloprid	41 - 2742	ND
Imidacloprid	45 - 2816	ND	Thiamethoxam	39 - 2800	ND
Kresoxim-methyl	38 - 2811	ND	Trifloxystrobin	42 - 2727	ND

Final Approval

Karen Winternheimer
11May2023
10:16:00 AM MDT
PREPARED BY / DATE

Sam Smith
11May2023
10:25:00 AM MDT
APPROVED BY / DATE

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Recover CBD Gummies

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Residual Solvents

Test ID: T000243699
Methods: TM04 (GC-MS): Residual Solvents

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Propane	82 - 1642	ND	
Butanes (Isobutane, n-Butane)	169 - 3371	ND	
Methanol	50 - 996	ND	
Pentane	83 - 1659	ND	
Ethanol	82 - 1635	ND	
Acetone	82 - 1649	ND	
Isopropyl Alcohol	84 - 1677	ND	
Hexane	5 - 100	ND	
Ethyl Acetate	84 - 1681	ND	
Benzene	0.2 - 3.5	ND	
Heptanes	89 - 1772	ND	
Toluene	15 - 300	ND	
Xylenes (m,p,o-Xylenes)	110 - 2199	ND	

Final Approval


Karen Winternheimer
12May2023
01:23:00 PM MDT
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Sam Smith
12May2023
01:25:00 PM MDT
APPROVED BY / DATE

Heavy Metals

Test ID: T000243698
Methods: TM19 (ICP-MS): Heavy Metals

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Arsenic	0.05 - 4.78	ND	
Cadmium	0.05 - 4.90	ND	
Mercury	0.05 - 4.85	ND	
Lead	0.01 - 1.44	ND	

Final Approval


Sam Smith
16May2023
09:21:00 AM MDT
PREPARED BY / DATE


Karen Winternheimer
16May2023
09:26:00 AM MDT
APPROVED BY / DATE

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Mycotoxins

Test ID: T000243700
Methods: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins

	Dynamic Range (ppb)	**Result** (ppb)	**Notes**
Ochratoxin A	3.89 - 131.59	ND	N/A
Aflatoxin B1	0.97 - 33.40	ND	
Aflatoxin B2	0.97 - 33.66	ND	
Aflatoxin G1	1.04 - 33.24	ND	
Aflatoxin G2	1.07 - 33.98	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval

Sam Smith
17May2023
09:54:00 AM MDT
PREPARED BY / DATE

Karen Winternheimer
17May2023
09:56:00 AM MDT
APPROVED BY / DATE

Cannabinoids

Test ID: T000243696
Methods: TM20 (HPLC-DAD)

	Dynamic Range (%)	**Result** (%)	**Result** (mg/g)	**Notes**
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.001 - 0.631	ND	0.00	N/A
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.002 - 1.264	ND	0.00	N/A
Total Potential THC	**-**	**ND**	**0.00**	

Final Approval

Sam Smith
17May2023
08:43:00 AM MDT
PREPARED BY / DATE

Karen Winternheimer
17May2023
08:45:00 AM MDT
APPROVED BY / DATE

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https://results.botanacor.com/api/v1/coas/uuid/bf76c8f3-2db1-43d7-85e3-ddf03aa0c7a7

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