SC Labs®
Formerly Botanacor Labs

Official Compliance: Colorado

CERTIFICATE OF ANALYSIS

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

Grape Tincture 375mg

Batch ID or Lot Number:	Test:	Reported:	USDA License:
Lot: 187-1327	**Potency**	**05May2023**	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Unit	T000243079	04May2023	N/A
	Method(s):	Received:	Status:
	TM14 (HPLC-DAD)	03May2023	N/A

Cannabinoids

	LOD (mg)	**LOQ** (mg)	**Result** (mg)	**Result** (mg/g)	**Notes**
Cannabichromene (CBC)	0.840	2.547	16.840	1.20	# of Servings = 1, Sample Weight=14.3g
Cannabichromenic Acid (CBCA)	0.769	2.330	ND	ND	
Cannabidiol (CBD)	2.714	6.948	393.660	27.50	
Cannabidiolic Acid (CBDA)	2.784	7.126	ND	ND	
Cannabidivarin (CBDV)	0.642	1.643	3.420	0.20	
Cannabidivarinic Acid (CBDVA)	1.161	2.973	ND	ND	
Cannabigerol (CBG)	0.477	1.446	4.320	0.30	
Cannabigerolic Acid (CBGA)	1.995	6.046	ND	ND	
Cannabinol (CBN)	0.623	1.887	9.710	0.70	
Cannabinolic Acid (CBNA)	1.361	4.125	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	2.377	7.203	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	2.158	6.542	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	1.912	5.796	ND	ND	
Tetrahydrocannabivarin (THCV)	0.434	1.316	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	1.687	5.112	ND	ND	
Total Cannabinoids			**427.950**	**29.90**	
Total Potential THC			ND	ND	
Total Potential CBD			393.660	27.50	

Final Approval

Karen Winternheimer
05May2023
10:28:00 AM MDT
PREPARED BY / DATE

Sam Smith
05May2023
10:32:00 AM MDT
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/828a6151-6809-49b5-8cda-7dcffc6148e3

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)).

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700 N. Colorado Blvd
Denver, CO USA 80206

Recover Tincture Grape 375mg

Batch ID or Lot Number:	Test:	Reported:	USDA License:
Lot: 187-1327	**Microbial Contaminants**	**11May2023**	NA
Matrix:	Test ID:	Started:	Sampler ID:
Finished Product	T000243459	08May2023	NA
	Method(s):	Received:	Status:
	TM25 (PCR) TM24, TM26, TM27 (Culture Plating)	05May2023	NA

Microbial Contaminants

	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/211a4888-142c-4608-863d-dbcc0c1c64dc

Definitions
* 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
CFU/g = Colony Forming Units per Gram, LOD = Limit of Detection
ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation
STEC = Shiga Toxin-Producing E. coli

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

Recover Tincture-Grape 375mg

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 1 of 4
Lot: 187-1327	Various	Concentrate	
Reported:	Started:	Received:	
11May2023	10May2023	10May2023	

Pesticides

Test ID: T000243734
Methods: TM17

(LC-QQ LC MS/MS)	**Dynamic Range** (ppb)	**Result** (ppb)
Abamectin	378 - 2769	ND
Acephate	43 - 2754	ND
Acetamiprid	40 - 2768	ND
Azoxystrobin	42 - 2784	ND
Bifenazate	40 - 2782	ND
Boscalid	42 - 2628	ND
Carbaryl	43 - 2760	ND
Carbofuran	43 - 2732	ND
Chlorantraniliprole	43 - 2646	ND
Chlorpyrifos	44 - 2784	ND
Clofentezine	275 - 2759	ND
Diazinon	292 - 2802	ND
Dichlorvos	285 - 2827	ND
Dimethoate	40 - 2771	ND
E-Fenpyroximate	306 - 2809	ND
Etofenprox	42 - 2769	ND
Etoxazole	318 - 2742	ND
Fenoxycarb	28 - 2816	ND
Fipronil	66 - 2797	ND
Flonicamid	46 - 2843	ND
Fludioxonil	302 - 2682	ND
Hexythiazox	41 - 2779	ND
Imazalil	277 - 2819	ND
Imidacloprid	45 - 2816	ND
Kresoxim-methyl	38 - 2811	ND

	Dynamic Range (ppb)	**Result** (ppb)
Malathion	287 - 2799	ND
Metalaxyl	38 - 2811	ND
Methiocarb	44 - 2678	ND
Methomyl	40 - 2805	ND
MGK 264 1	168 - 1670	ND
MGK 264 2	112 - 1086	ND
Myclobutanil	40 - 2671	ND
Naled	45 - 2772	ND
Oxamyl	41 - 2799	ND
Paclobutrazol	43 - 2746	ND
Permethrin	293 - 2838	ND
Phosmet	40 - 2782	ND
Prophos	299 - 2688	ND
Propoxur	43 - 2750	ND
Pyridaben	316 - 2744	ND
Spinosad A	32 - 2092	ND
Spinosad D	66 - 670	ND
Spiromesifen	293 - 2785	ND
Spirotetramat	287 - 2858	ND
Spiroxamine 1	18 - 1197	ND
Spiroxamine 2	25 - 1510	ND
Tebuconazole	288 - 2788	ND
Thiacloprid	41 - 2742	ND
Thiamethoxam	39 - 2800	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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Prepared for:
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Denver, CO USA 80206

Recover Tincture-Grape 375mg

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	
Lot: 187-1327	Various	Concentrate	
Reported:	Started:	Received:	
11May2023	10May2023	10May2023	

Residual Solvents

Test ID: T000243736
Methods: TM04 (GC-MS): Residual Solvents

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Propane	82 - 1643	ND	
Butanes (Isobutane, n-Butane)	169 - 3373	ND	
Methanol	50 - 996	ND	
Pentane	83 - 1661	ND	
Ethanol	82 - 1636	ND	
Acetone	83 - 1650	ND	
Isopropyl Alcohol	84 - 1678	ND	
Hexane	5 - 100	ND	
Ethyl Acetate	84 - 1682	ND	
Benzene	0.2 - 3.5	ND	
Heptanes	89 - 1774	ND	
Toluene	15 - 301	ND	
Xylenes (m,p,o-Xylenes)	110 - 2201	ND	

Final Approval


Karen Winternheimer
12May2023
01:23:00 PM MDT
PREPARED BY / DATE


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

Heavy Metals

Test ID: T000243735
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
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Denver, CO USA 80206

Recover Tincture-Grape 375mg

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	
Lot: 187-1327	Various	Concentrate	
Reported:	Started:	Received:	
11May2023	10May2023	10May2023	

Cannabinoids

Test ID: T000243733
Methods: TM20 (HPLC-DAD)

	Dynamic Range (%)	**Result** (%)	**Result** (mg/g)	**Notes**
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.001 - 0.669	ND	0.00	N/A
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.002 - 1.339	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

Mycotoxins

Test ID: T000243737
Methods: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins

	Dynamic Range (ppb)	**Result** (ppb)	**Notes**
Ochratoxin A	3.95 - 133.53	ND	N/A
Aflatoxin B1	0.99 - 33.89	ND	
Aflatoxin B2	0.99 - 34.16	ND	
Aflatoxin G1	1.05 - 33.73	ND	
Aflatoxin G2	1.09 - 34.49	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

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Recover Tincture-Grape 375mg

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	
Lot: 187-1327	Various	Concentrate	
Reported:	Started:	Received:	
11May2023	10May2023	10May2023	

https://results.botanacor.com/api/v1/coas/uuid/3e106fee-71e2-4bd4-8b12-f0dcd4f175a5

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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