

Prepared for:

DEFY RECOVER Mixed Berry
DEFY


Batch ID or Lot Number: W221363	Test: Potency	Reported: 1/11/22	Location: 4109 E 10th Ave. Denver, CO 80220
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Matrix: Unit	Test ID: T000185930	Started: 1/10/22	USDA License: N/A
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Status: N/A	Method: TM14 (HPLC-DAD): Potency - Broad Spectrum Analysis, 0.01% THC (Colorado Panel)	Received: 01/05/2022 @ 11:22 AM	Sampler ID: N/A
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CANNABINOID PROFILE

Compound	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.876	3.075	ND	ND	# of Servings = 1 Sample Weight=508.9g
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.988	3.470	ND	ND	
Cannabidiolic acid (CBDA)	1.248	4.030	ND	ND	
Cannabidiol (CBD)	1.217	3.929	24.282	0.05	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	1.088	3.821	ND	ND	
Cannabinolic Acid (CBNA)	0.623	2.188	ND	ND	
Cannabinol (CBN)	0.285	1.001	ND	ND	
Cannabigerolic acid (CBGA)	0.913	3.207	ND	ND	
Cannabigerol (CBG)	0.219	0.767	0.682*	0*	
Tetrahydrocannabivarinic Acid (THCVA)	0.772	2.712	ND	ND	
Tetrahydrocannabivarin (THCV)	0.199	0.698	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.521	1.681	ND	ND	
Cannabidivarin (CBDV)	0.288	0.929	ND	ND	
Cannabichromenic Acid (CBCA)	0.352	1.236	ND	ND	
Cannabichromene (CBC)	0.385	1.351	0.741*	0*	
Total Cannabinoids			25.705	0.05	
Total Potential THC**			ND	ND	
Total Potential CBD**			24.282	0.05	


 Hannah Wright
 11-Jan-2022
 12:29 PM

PREPARED BY / DATE


 Daniel Weidensaul
 11-Jan-22
 12:57 PM

APPROVED BY / DATE

Definitions

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)

* Indicates a value below the Limit of Quantitation (LOQ) and above the Limit of Detection (LOD).

** Total Potential THC/CBD 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)) and

Total CBD = CBD + (CBDa *(0.877))

Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

ND = None Detected (Defined by Dynamic Range of the method)

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Certificate #4329.02

DEFY RECOVER Mixed Berry

Batch ID:	W221363	Test ID:	T000185931
Type:	Unit Co	Submitted:	01/05/2022 @ 11:22 AM
Test:	Trace THC	Started:	1/11/2022
Method:	TM20 (HPLC-DAD)	Reported:	1/12/2022

TRACE THC/THCa PROFILE

Compound	Dynamic Range (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0 - 0.018	ND**	ND**
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0 - 0.035	ND**	ND**
Total Potential THC*		ND**	ND**

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)

* 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))


** ND = None Detected (Defined by Dynamic Range of the method)

*** ALOO = Above Limit Of Quantitation (Defined by Dynamic Range of the method)


NOTES:

N/A

FINAL APPROVAL



Rvan Weems
12-Jan-2022
3:36 PM



Sam Smith
12-Jan-2022
3:44 PM

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APPROVED BY / DATE

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Prepared for:


DEFY RECOVER Mixed Berry
DEFY

Batch ID or Lot Number: W221363	Test: Microbial Contaminants	Reported: 1/10/22	Location: 4109 E 10th Ave. Denver, CO 80220
Matrix: Finished Product	Test ID: T000185933	Started: 1/6/22	USDA License: N/A
Status: N/A	Methods: TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial (Colorado Panel)	Received: 01/05/2022 @ 11:22 AM	Sampler ID: N/A

MICROBIAL CONTAMINANTS DETERMINATION

Contaminant	Method	LOD	LLOQ	ULOQ	Result	Notes
Total Aerobic Count*	TM-26, Culture Plating	10 ² CFU/g	10 ³ CFU/g	1.5x10 ⁵ CFU/g	None Detected	Free from visual mold, mildew, and foreign matter
Total Coliforms*	TM-27, Culture Plating	10 ¹ CFU/g	10 ² CFU/g	1.5x10 ⁴ CFU/g	None Detected	
Total Yeast and Mold*	TM-24, Culture Plating	10 ¹ CFU/g	10 ² CFU/g	1.5x10 ⁴ CFU/g	None Detected	
E. coli (STEC)	TM-25, PCR	1 CFU/25 g	NA	NA	Absent	
Salmonella	TM-25, PCR	1 CFU/25 g	NA	NA	Absent	


 Brett Hudson
 1/10/2022
 4:09:00 PM


 Eden Thompson-Wright
 1/10/2022
 5:16:00 PM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

LOD = Limit of Detection | LLOQ = Lower Limit of Quantitation | ULOQ = Upper Limit of Quantitation

 CFU/g = Colony Forming Units per Gram | STEC = Shiga Toxin-Producing *E. coli*

* 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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Prepared for:


DEFY RECOVER Mixed Berry
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Batch ID or Lot Number: W221363	Test: Pesticides	Reported: 1/11/22	Location: 4109 E 10th Ave. Denver, CO 80220
Matrix: Concentrate	Test ID: T000185932	Started: 1/10/22	USDA License: N/A
Status: N/A	Method: TM17(LC-QQQ LC MS/MS):	Received: 01/05/2022 @ 11:22 AM	Sampler ID: N/A

PESTICIDE DETERMINATION

Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)
Acephate	47	ND	Fenoxycarb	43	ND	Paclobutrazol	46	ND
Acetamiprid	46	ND	Fipronil	34	ND	Permethrin	328	ND
Avermectin	302	ND	Flonicamid	62	ND	Phosmet	45	ND
Azoxystrobin	44	ND	Fludioxonil	316	ND	Prophos	262	ND
Bifenazate	38	ND	Hexythiazox	48	ND	Propoxur	41	ND
Boscalid	48	ND	Imazalil	281	ND	Pyridaben	323	ND
Carbaryl	37	ND	Imidacloprid	48	ND	Spinosad A	38	ND
Carbofuran	43	ND	Kresoxim-methyl	150	ND	Spinosad D	56	ND
Chlorantraniliprole	46	ND	Malathion	284	ND	Spiromesifen	288	ND
Chlorpyrifos	500	ND	Metalaxyl	45	ND	Spirotetramat	289	ND
Clofentezine	272	ND	Methiocarb	35	ND	Spiroxamine 1	19	ND
Diazinon	306	ND	Methomyl	48	ND	Spiroxamine 2	23	ND
Dichlorvos	342	ND	MGK 264 1	183	ND	Tebuconazole	280	ND
Dimethoate	42	ND	MGK 264 2	126	ND	Thiacloprid	45	ND
E-Fenpyroximate	323	ND	Myclobutanil	39	ND	Thiamethoxam	43	ND
Etofenprox	44	ND	Naled	43	ND	Trifloxystrobin	46	ND
Etoxazole	337	ND	Oxamyl	1500	ND			


 Sam Smith
 1/11/2022
 1:35:00 PM


 Daniel Weidensaul
 1/11/2022
 1:44:00 PM

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Definitions

LOQ = Limit of Quantification
 ppb = Parts per Billion

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Prepared for:

DEFY RECOVER Mixed Berry
DEFY

Batch ID or Lot Number: W221363	Test: Metals	Reported: 1/10/22	Location: 4109 E 10th Ave. Denver, CO 80220
Matrix: Unit Co	Test ID: T000185934	Started: 1/7/22	USDA License: N/A
Status: N/A	Method: TM19 (ICP-MS): Heavy Metals (Colorado Panel)	Received: 01/05/2022 @ 11:22 AM	Sampler ID: N/A

HEAVY METALS DETERMINATION

Compound	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.045 - 4.54	ND	
Cadmium	0.046 - 4.60	ND	
Mercury	0.045 - 4.54	ND	
Lead	0.050 - 4.99	ND	


 Sam Smith
 10-Jan-22
 11:46 AM


 Ryan Weems
 10-Jan-22
 12:04 PM

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Definitions

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Prepared for:

LA-035-BSE-X-UNF
DEFY

Batch ID or Lot Number: AIL2221021	Test: Residual Solvents	Reported: 11/17/21	Location: 4109 E. 10th Ave. Denver, CO 80220
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Matrix: N/A	Test ID: T000176745	Started: 11/17/21	USDA License: N/A
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Status: N/A	Methods: TM04 (GC-MS): Residual Solvents	Received: 11/16/2021 @ 09:26 AM	Sampler ID: N/A
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RESIDUAL SOLVENTS DETERMINATION

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	97 - 1948	*ND	
Butanes (Isobutane, n-Butane)	197 - 3938	*ND	
Methanol	55 - 1103	*ND	
Pentane	75 - 1500	*ND	
Ethanol	76 - 1530	*ND	
Acetone	87 - 1747	*ND	
Isopropyl Alcohol	91 - 1825	*ND	
Hexane	5 - 106	*ND	
Ethyl Acetate	88 - 1758	*ND	
Benzene	0.2 - 3.5	*ND	
Heptanes	83 - 1670	*ND	
Toluene	16 - 317	*ND	
Xylenes (m,p,o-Xylenes)	115 - 2292	*ND	



 Hannah Wright
17-Nov-21
4:48 PM



 Sam Smith
17-Nov-21
4:51 PM

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Definitions

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Certificate #4329.02

Prepared for:

DEFY RECOVER Mixed Berry**DEFY**

Batch ID or Lot Number: W221363	Test: Mycotoxins	Reported: 1/10/22	Location: 4109 E 10th Ave. Denver, CO 80220
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Matrix: Concentrate	Test ID: T000185936	Started: 1/7/22	USDA License: N/A
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Status: N/A	Method: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins (Colorado Panel)	Received: 01/05/2022 @ 11:22 AM	Sampler ID: N/A
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MYCOTOXIN DETERMINATION

Compound	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	3.4 - 139.2	ND	N/A
Aflatoxin B1	1 - 35.9	ND	
Aflatoxin B2	1.3 - 35	ND	
Aflatoxin G1	1.2 - 35.2	ND	
Aflatoxin G2	1.2 - 34.4	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Sam Smith
10-Jan-22
12:18 PM

PREPARED BY / DATE

Ryan Weems
10-Jan-22
12:36 PM

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Definitions

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