

Prepared for:

**DEFY RECOVER - Orange Citrus**
**DEFY**


Batch ID or Lot Number: <b>L-210922-1</b>	Test: <b>Potency</b>	Reported: <b>10/8/21</b>	Location: 4109 E 10th Ave. Denver, CO 80220
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Matrix: Unit	Test ID: T000167260	Started: 10/7/21	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: 10/06/2021 @ 10:09 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)	1.257	3.474	ND	ND	# of Servings = 1 Sample Weight=500g
Delta 9-Tetrahydrocannabinol (Delta 9THC)	1.419	3.920	ND	ND	
Cannabidiolic acid (CBDA)	1.143	3.968	ND	ND	
Cannabidiol (CBD)	1.114	3.869	25.045	0.05	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	1.563	4.317	ND	ND	
Cannabinolic Acid (CBNA)	0.895	2.472	ND	ND	
Cannabinol (CBN)	0.409	1.131	0.523*	0*	
Cannabigerolic acid (CBGA)	1.312	3.623	ND	ND	
Cannabigerol (CBG)	0.314	0.867	0.416*	0*	
Tetrahydrocannabivarinic Acid (THCVA)	1.109	3.064	ND	ND	
Tetrahydrocannabivarin (THCV)	0.285	0.788	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.477	1.655	ND	ND	
Cannabidivarin (CBDV)	0.264	0.915	ND	ND	
Cannabichromenic Acid (CBCA)	0.505	1.396	ND	ND	
Cannabichromene (CBC)	0.553	1.527	ND	ND	
<b>Total Cannabinoids</b>			<b>25.984</b>	<b>0.05</b>	
Total Potential THC**			ND	ND	
Total Potential CBD**			25.045	0.05	

  
 Hannah Wright  
 08-Oct-2021  
 02:29 PM

  
 Daniel Weidensaul  
 8-Oct-21  
 2:38 PM

PREPARED BY / DATE

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.

$$\text{Total THC} = \text{THC} + (\text{THCa} \times (0.877)) \text{ and}$$

$$\text{Total CBD} = \text{CBD} + (\text{CBDa} \times (0.877))$$

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 - Orange Citrus

<b>Batch ID:</b>	L-210922-1	<b>Test ID:</b>	T000167261
<b>Type:</b>	Unit Co	<b>Submitted:</b>	10/06/2021 @ 10:09 AM
<b>Test:</b>	Trace THC	<b>Started:</b>	10/7/2021
<b>Method:</b>	TM20 (HPLC-DAD)	<b>Reported:</b>	10/8/2021

## TRACE THC/THCa PROFILE

Compound	Dynamic Range (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.001 - 0.674	ND**	ND**
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.002 - 1.349	ND**	ND**
Total Potential THC*		ND**	ND**



## NOTES:

N/A

\* % = % (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)

## FINAL APPROVAL

Daniel Weidensaul  
8-Oct-2021  
5:05 PMRvan Weems  
8-Oct-2021  
5:07 PM

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APPROVED BY / DATE

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Prepared for:

**DEFY RECOVER - Orange Citrus**
**DEFY**

Batch ID or Lot Number: <b>L-210922-1</b>	Test: <b>Pesticides</b>	Reported: <b>10/8/21</b>	Location: 4109 E 10th Ave. Denver, CO 80220
Matrix: Concentrate	Test ID: T000167262	Started: 10/7/21	USDA License: N/A
Status: N/A	Method: TM17(LC-QQQ LC MS/MS):	Received: 10/06/2021 @ 10:09 AM	Sampler ID: N/A

**PESTICIDE DETERMINATION**

Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)
Acephate	36	ND	Fenoxycarb	18	ND	Paclobutrazol	40	ND
Acetamiprid	41	ND	Fipronil	30	ND	Permethrin	317	ND
Avermectin	345	ND	Flonicamid	44	ND	Phosmet	40	ND
Azoxystrobin	44	ND	Fludioxonil	282	ND	Prophos	301	ND
Bifenazate	44	ND	Hexythiazox	35	ND	Propoxur	42	ND
Boscalid	42	ND	Imazalil	292	ND	Pyridaben	341	ND
Carbaryl	38	ND	Imidacloprid	38	ND	Spinosad A	38	ND
Carbofuran	41	ND	Kresoxim-methyl	150	ND	Spinosad D	57	ND
Chlorantraniliprole	41	ND	Malathion	308	ND	Spiromesifen	281	ND
Chlorpyrifos	500	ND	Metalaxyl	43	ND	Spirotetramat	292	ND
Clofentezine	292	ND	Methiocarb	40	ND	Spiroxamine 1	18	ND
Diazinon	303	ND	Methomyl	40	ND	Spiroxamine 2	25	ND
Dichlorvos	283	ND	MGK 264 1	160	ND	Tebuconazole	306	ND
Dimethoate	41	ND	MGK 264 2	114	ND	Thiacloprid	41	ND
E-Fenpyroximate	336	ND	Myclobutanil	38	ND	Thiamethoxam	39	ND
Etofenprox	42	ND	Naled	47	ND	Trifloxystrobin	44	ND
Etoxazole	312	ND	Oxamyl	1500	ND			


 Karen Winternheimer  
 10/8/2021  
 8:59:00 AM


 Alex Smith  
 10/8/2021  
 3:15:00 PM

PREPARED BY / DATE

APPROVED BY / DATE

**Definitions**

LOQ = Limit of Quantification  
 ppb = Parts per Billion

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Prepared for:

**DEFY RECOVER Water Soluble CBD**

**DEFY**


Batch ID or Lot Number: <b>LA-035-BSA-X-UNF - Residual Solvents</b> <b>Lot# AIL2080621</b>	Test: <b>Residual Solvents</b>	Reported: <b>7/26/21</b>	Location: 4109 E 10th Ave. Denver, CO 80220
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Matrix: N/A	Test ID: T000151995	Started: 7/26/21	USDA License: N/A
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Status: N/A	Methods: TM04 (GC-MS): Residual Solvents (Colorado Panel)	Received: 07/19/2021 @ 09:52 AM	Sampler ID: N/A
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**RESIDUAL SOLVENTS DETERMINATION**

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	76 - 1517	*ND	
Butanes (Isobutane, n-Butane)	148 - 2969	*ND	
Methanol	57 - 1143	*ND	
Pentane	83 - 1670	*ND	
Ethanol	90 - 1810	*ND	
Acetone	93 - 1854	*ND	
Isopropyl Alcohol	100 - 2001	*ND	
Hexane	6 - 114	*ND	
Ethyl Acetate	93 - 1870	*ND	
Benzene	0 - 4	*ND	
Heptanes	89 - 1784	*ND	
Toluene	17 - 340	*ND	
Xylenes (m,p,o-Xylenes)	124 - 2482	*ND	


 Sam Smith  
 26-Jul-21  
 1:54 PM


 Ryan Weems  
 26-Jul-21  
 1:56 PM

PREPARED BY / DATE

APPROVED BY / DATE

**Definitions**

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

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Prepared for:


**DEFY RECOVER - Orange Citrus**
**DEFY**

Batch ID or Lot Number: <b>L-210922-1</b>	Test: <b>Microbial Contaminants</b>	Reported: <b>10/10/21</b>	Location: 4109 E 10th Ave. Denver, CO 80220
Matrix: Finished Product	Test ID: T000167263	Started: 10/6/21	USDA License: N/A
Status: N/A	Methods: TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial (Colorado Panel)	Received: 10/06/2021 @ 10:09 AM	Sampler ID: N/A

**MICROBIAL CONTAMINANTS DETERMINATION**

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


 Robert Belfon  
 10/9/2021  
 7:19:00 PM


 Courtney Richards  
 10/10/2021  
 12:48:00 AM

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:  
 10<sup>2</sup> = 100 CFU  
 10<sup>3</sup> = 1,000 CFU  
 10<sup>4</sup> = 10,000 CFU  
 10<sup>5</sup> = 100,000 CFU

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Prepared for:


**DEFY RECOVER - Orange Citrus**


**DEFY**

Batch ID or Lot Number: <b>L-210922-1</b>	Test: <b>Metals</b>	Reported: <b>10/12/21</b>	Location: 4109 E 10th Ave. Denver, CO 80220
Matrix: Unit Co	Test ID: T000167264	Started: 10/11/21	USDA License: N/A
Status: N/A	Method: TM19 (ICP-MS); Heavy Metals (Colorado Panel)	Received: 10/06/2021 @ 10:09 AM	Sampler ID: N/A

**HEAVY METALS DETERMINATION**

Compound	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.041 - 4.12	ND	
Cadmium	0.043 - 4.29	ND	
Mercury	0.042 - 4.21	ND	
Lead	0.047 - 4.72	ND	

 Daniel Weidensaul  
12-Oct-21  
11:22 AM

 Ryan Weems  
12-Oct-21  
11:24 AM

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**Definitions**

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Prepared for:

**DEFY RECOVER - Orange Citrus**
**DEFY**


Batch ID or Lot Number: <b>L-210922-1</b>	Test: <b>Mycotoxins</b>	Reported: <b>10/12/21</b>	Location: 4109 E 10th Ave. Denver, CO 80220
Matrix: Concentrate	Test ID: T000167266	Started: 10/11/21	USDA License: N/A
Status: N/A	Method: TM18 (UHPLC-QQ LCMS/MS): Mycotoxins (Colorado Panel)	Received: 10/06/2021 @ 10:09 AM	Sampler ID: N/A

**MYCOTOXIN DETERMINATION**

Compound	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	1.4 - 128.9	ND	N/A
Aflatoxin B1	1 - 33.1	ND	
Aflatoxin B2	1 - 32.9	ND	
Aflatoxin G1	1 - 32.7	ND	
Aflatoxin G2	1 - 32.3	ND	
<b>Total Aflatoxins (B1, B2, G1, and G2)</b>		ND	


 Sam Smith  
 12-Oct-21  
 7:53 AM

PREPARED BY / DATE


 Courtney Richards  
 12-Oct-21  
 10:03 AM

APPROVED BY / DATE

**Definitions**

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