botanacor

CERTIFICATE OF ANALYSIS

Prepared for:
DEFY LLC
700 N Colorado Blvd., STE 354
Denver, CO United States 80220

30pc defy immunity gummy final

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 1 of 2
277-002	Various	Unit Co	
Reported:	**Started:**	**Received:**	
08Apr2022	07Apr2022	05Apr2022	

Cannabinoids

Test ID: T000201300
Methods: TM20 (HPLC-DAD)

	Dynamic Range (%)	**Result** (%)	**Result** (mg/g)	**Notes**
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.001 - 0.682	ND	0.00	N/A
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.002 - 1.365	ND	0.00	N/A
Total Potential THC	**-**	**ND**	**0.00**	

Final Approval

Ryan Weems
08Apr2022
03:59:00 PM MDT
PREPARED BY / DATE

Daniel Weidensaul
08Apr2022
04:01:00 PM MDT
APPROVED BY / DATE

Microbial Contaminants - Colorado Compliance

Test ID: T000201301
Methods: TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel)

	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

Brianne Maillot
09Apr2022
04:01:00 PM MDT
PREPARED BY / DATE

Brett Hudson
11Apr2022
02:11:00 PM MDT
APPROVED BY / DATE

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277-002	Various	Unit Co	
Reported:	**Started:**	**Received:**	
08Apr2022	07Apr2022	05Apr2022	

Cannabinoids - Colorado Compliance

Test ID: T000201299
Methods: TM14 (HPLC-DAD): Potency – Standard

Cannabinoid Analysis	**LOD** (mg)	**LOQ** (mg)	**Result** (mg)	**Result** (mg/g)	**Notes**
Cannabichromene (CBC)	10.778	37.113	ND	ND	# of Servings = 1 Sample Weight=150g
Cannabichromenic Acid (CBCA)	9.859	33.946	ND	ND	
Cannabidiol (CBD)	28.468	92.845	813.773	5.43	
Cannabidiolic Acid (CBDA)	29.198	95.226	ND	ND	
Cannabidivarin (CBDV)	6.733	21.959	ND	ND	
Cannabidivarinic Acid (CBDVA)	12.180	39.724	ND	ND	
Cannabigerol (CBG)	6.120	21.072	ND	ND	
Cannabigerolic Acid (CBGA)	25.582	88.087	ND	ND	
Cannabinol (CBN)	7.984	27.490	ND	ND	
Cannabinolic Acid (CBNA)	17.454	60.099	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	30.478	104.944	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	27.679	95.308	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	24.524	84.443	ND	ND	
Tetrahydrocannabivarin (THCV)	5.566	19.166	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	21.631	74.482	ND	ND	
Total Cannabinoids			**813.773**	**5.43**	
Total Potential THC			ND	ND	
Total Potential CBD			813.773	5.43	

Final Approval

Hannah Wright
11Apr2022
04:55:00 PM MDT
PREPARED BY / DATE

Ryan Weems
11Apr2022
05:02:00 PM MDT
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/b78c96eb-a8ab-494a-a869-e4c3facccb80

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.

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 17025:2005 Accredited A2LA. Some tests listed on this COA may not be within our scope of A2LA accreditation. Please visit A2LA for more details.

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