

Prepared for:
North Brands LLC

Higher Vibes Blueberry Citrus

Batch ID or Lot Number: NCC0041	Test, Test ID and Methods: Various	Matrix: Unit	Page 1 of 5
Reported: 11Oct2023	Started: 11Oct2023	Received: 11Oct2023	


Cannabinoids

Test ID: T000258576


Methods: TM14 (HPLC-DAD)

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.134	0.459	ND	ND	# of Servings = 1, Sample Weight=355g
Cannabichromenic Acid (CBCA)	0.122	0.420	ND	ND	
Cannabidiol (CBD)	0.421	1.273	5.100	0.00	
Cannabidiolic Acid (CBDA)	0.431	1.305	ND	ND	
Cannabidivarin (CBDV)	0.099	0.301	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.180	0.544	ND	ND	
Cannabigerol (CBG)	0.076	0.261	ND	ND	
Cannabigerolic Acid (CBGA)	0.317	1.090	ND	ND	
Cannabinol (CBN)	0.099	0.340	ND	ND	
Cannabinolic Acid (CBNA)	0.216	0.744	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.378	1.298	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.343	1.179	2.610	0.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.304	1.045	ND	ND	
Tetrahydrocannabivarin (THCV)	0.069	0.237	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.268	0.922	ND	ND	
Total Cannabinoids			7.710	0.00	
Total Potential THC			2.610	0.00	
Total Potential CBD			5.100	0.00	

Final Approval

 Sam Smith
11Oct2023
04:41:00 PM MDT

PREPARED BY / DATE

 Karen Winternheimer
11Oct2023
04:43:00 PM MDT

APPROVED BY / DATE

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Residual Solvents

Test ID: T000258580
Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	126 - 2511	ND	
Butanes (Isobutane, n-Butane)	247 - 4938	ND	
Methanol	66 - 1318	ND	
Pentane	122 - 2449	ND	
Ethanol	103 - 2055	ND	
Acetone	110 - 2191	ND	
Isopropyl Alcohol	100 - 2006	ND	
Hexane	7 - 143	ND	
Ethyl Acetate	110 - 2193	ND	
Benzene	0.2 - 4.4	ND	
Heptanes	115 - 2310	ND	
Toluene	18 - 358	ND	
Xylenes (m,p,o-Xylenes)	121 - 2428	ND	

Final Approval


 Karen Winternheimer
 16Oct2023
 09:19:00 AM MDT
 PREPARED BY / DATE


 Sam Smith
 16Oct2023
 09:24:00 AM MDT
 APPROVED BY / DATE

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Microbial Contaminants

Test ID: T000258578

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
<i>Salmonella</i>	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	<LLOQ	
Total Coliforms*	TM27: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	

Final Approval

	Eden Thompson-Wright 15Oct2023 10:20:00 AM MDT		Brianne Maillot 16Oct2023 10:21:00 AM MDT
PREPARED BY / DATE		APPROVED BY / DATE	

Heavy Metals

Test ID: T000258579

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.57	ND	
Cadmium	0.05 - 4.50	ND	
Mercury	0.05 - 4.77	ND	
Lead	0.05 - 4.63	ND	

Final Approval

	Sam Smith 17Oct2023 07:35:00 AM MDT		Karen Winternheimer 17Oct2023 07:39:00 AM MDT
PREPARED BY / DATE		APPROVED BY / DATE	

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Pesticides


Test ID: T000258577

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	232 - 2668	ND		Malathion	298 - 2717	ND
Acephate	45 - 2757	ND		Metalaxyl	46 - 2726	ND
Acetamiprid	44 - 2726	ND		Methiocarb	42 - 2729	ND
Azoxystrobin	44 - 2727	ND		Methomyl	42 - 2741	ND
Bifenazate	45 - 2726	ND		MGK 264 1	153 - 1675	ND
Boscalid	40 - 2727	ND		MGK 264 2	94 - 1077	ND
Carbaryl	44 - 2726	ND		Myclobutanil	46 - 2702	ND
Carbofuran	45 - 2723	ND		Naled	47 - 2756	ND
Chlorantraniliprole	45 - 2718	ND		Oxamyl	41 - 2755	ND
Chlorpyrifos	36 - 2645	ND		Paclobutrazol	46 - 2709	ND
Clofentezine	281 - 2725	ND		Permethrin	283 - 2669	ND
Diazinon	285 - 2742	ND		Phosmet	43 - 2716	ND
Dichlorvos	283 - 2767	ND		Prophos	277 - 2691	ND
Dimethoate	42 - 2732	ND		Propoxur	42 - 2734	ND
E-Fenpyroximate	286 - 2691	ND		Pyridaben	278 - 2628	ND
Etofenprox	44 - 2656	ND		Spinosad A	33 - 2095	ND
Etoazole	284 - 2656	ND		Spinosad D	63 - 658	ND
Fenoxycarb	49 - 2730	ND		Spiromesifen	262 - 2661	ND
Fipronil	39 - 2804	ND		Spirotetramat	295 - 2798	ND
Flonicamid	39 - 2730	ND		Spiroxamine 1	20 - 1202	ND
Fludioxonil	318 - 2731	ND		Spiroxamine 2	25 - 1522	ND
Hexythiazox	39 - 2641	ND		Tebuconazole	277 - 2704	ND
Imazalil	276 - 2745	ND		Thiacloprid	43 - 2718	ND
Imidacloprid	44 - 2768	ND		Thiamethoxam	44 - 2747	ND
Kresoxim-methyl	43 - 2758	ND		Trifloxystrobin	44 - 2712	ND

Final Approval


 Sam Smith
 17Oct2023
 10:33:00 AM MDT
 PREPARED BY / DATE


 Karen Winternheimer
 17Oct2023
 10:39:00 AM MDT
 APPROVED BY / DATE

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<https://results.botanacor.com/api/v1/coas/uuid/56c4e880-8711-422b-a5fb-b5c5466e3deb>

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: 10² = 100 CFU, 10³ = 1,000 CFU, 10⁴ = 10,000 CFU, 10⁵ = 100,000 CFU.

Testing results are based solely upon the sample submitted to SC Laboratories, Inc., in the condition it was received. SC Laboratories, Inc., 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 SC Laboratories, Inc. ISO/IEC 17025:2017 A2LA Cert #: 4329.02 Chemical; 4329.03 Biological. 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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