

Prepared for:
North Brands LLC

North Gummies - Mango

Batch ID or Lot Number: 050525	Test, Test ID and Methods: Various	Matrix: Unit	Page 1 of 5
Reported: 29Feb2024	Started: 29Feb2024	Received: 29Feb2024	


Cannabinoids

Test ID: T000272591


Methods: TM14 (HPLC-DAD)

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.242	0.832	ND	ND	# of Servings = 1, Sample Weight=3.316g
Cannabichromenic Acid (CBCA)	0.222	0.761	ND	ND	
Cannabidiol (CBD)	0.853	2.289	ND	ND	
Cannabidiolic Acid (CBDA)	0.875	2.347	ND	ND	
Cannabidivarin (CBDV)	0.202	0.541	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.365	0.979	ND	ND	
Cannabigerol (CBG)	0.137	0.473	ND	ND	
Cannabigerolic Acid (CBGA)	0.575	1.976	ND	ND	
Cannabinol (CBN)	0.179	0.617	ND	ND	
Cannabinolic Acid (CBNA)	0.392	1.348	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.685	2.354	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.622	2.138	5.050	1.50	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.551	1.894	ND	ND	
Tetrahydrocannabivarin (THCV)	0.125	0.430	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.486	1.670	ND	ND	
Total Cannabinoids			5.050	1.50	
Total Potential THC			5.050	1.50	
Total Potential CBD			ND	ND	

Final Approval

 Sam Smith
29Feb2024
04:00:00 PM MST

PREPARED BY / DATE

 Karen Winternheimer
29Feb2024
04:01:00 PM MST

APPROVED BY / DATE

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Microbial Contaminants

Test ID: T000272593

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

Final Approval

 Edén Thompson-Wright 03Mar2024 01:52:00 PM MST PREPARED BY / DATE	 Brianne Maillot 04Mar2024 10:36:00 AM MST APPROVED BY / DATE
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Residual Solvents

Test ID: T000272595

Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	85 - 1700	ND	
Butanes (Isobutane, n-Butane)	178 - 3568	ND	
Methanol	67 - 1342	ND	
Pentane	91 - 1816	ND	
Ethanol	94 - 1885	ND	
Acetone	106 - 2111	ND	
Isopropyl Alcohol	110 - 2192	ND	
Hexane	7 - 133	ND	
Ethyl Acetate	108 - 2166	ND	
Benzene	0.2 - 4.4	ND	
Heptanes	102 - 2034	ND	
Toluene	20 - 394	ND	
Xylenes (m,p,o-Xylenes)	142 - 2838	ND	

Final Approval


 Karen Winternheimer
 05Mar2024
 08:54:00 AM MST
 PREPARED BY / DATE


 Phillip Travisano
 05Mar2024
 08:56:00 AM MST
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Pesticides

Test ID: T000272592

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	303 - 2700	ND		Malathion	305 - 2688	ND
Acephate	44 - 2717	ND		Metalaxyl	41 - 2723	ND
Acetamiprid	42 - 2672	ND		Methiocarb	43 - 2702	ND
Azoxystrobin	46 - 2716	ND		Methomyl	44 - 2711	ND
Bifenazate	42 - 2698	ND		MGK 264 1	153 - 1606	ND
Boscalid	39 - 2729	ND		MGK 264 2	110 - 1092	ND
Carbaryl	42 - 2703	ND		Myclobutanil	44 - 2688	ND
Carbofuran	43 - 2697	ND		Naled	50 - 2666	ND
Chlorantraniliprole	48 - 2704	ND		Oxamyl	42 - 2732	ND
Chlorpyrifos	45 - 2777	ND		Paclobutrazol	43 - 2716	ND
Clofentezine	278 - 2734	ND		Permethrin	290 - 2859	ND
Diazinon	289 - 2726	ND		Phosmet	40 - 2590	ND
Dichlorvos	285 - 2715	ND		Prophos	294 - 2690	ND
Dimethoate	44 - 2661	ND		Propoxur	43 - 2684	ND
E-Fenpyroximate	271 - 2826	ND		Pyridaben	289 - 2793	ND
Etofenprox	45 - 2797	ND		Spinosad A	32 - 2098	ND
Etoxazole	286 - 2702	ND		Spinosad D	62 - 676	ND
Fenoxycarb	42 - 2767	ND		Spiromesifen	290 - 2770	ND
Fipronil	21 - 2732	ND		Spirotetramat	276 - 2758	ND
Flonicamid	50 - 2730	ND		Spiroxamine 1	17 - 1032	ND
Fludioxonil	266 - 2659	ND		Spiroxamine 2	25 - 1597	ND
Hexythiazox	42 - 2798	ND		Tebuconazole	286 - 2765	ND
Imazalil	282 - 2768	ND		Thiacloprid	44 - 2691	ND
Imidacloprid	46 - 2722	ND		Thiamethoxam	44 - 2752	ND
Kresoxim-methyl	39 - 2762	ND		Trifloxystrobin	44 - 2720	ND

Final Approval


 Karen Winternheimer
 05Mar2024
 09:43:00 AM MST
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 Phillip Travisano
 05Mar2024
 09:45:00 AM MST
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Heavy Metals

Test ID: T000272594

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.65	ND	
Cadmium	0.04 - 4.42	ND	
Mercury	0.05 - 4.56	ND	
Lead	0.05 - 4.56	ND	

Final Approval



Phillip Travisano
05Mar2024
02:58:00 PM MST

PREPARED BY / DATE



Karen Winternheimer
05Mar2024
02:59:00 PM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/bb443996-7ef2-47be-ad89-47cd03b43f65>

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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