

Prepared for:  
**North Brands LLC**

## North High Tonics Blood Orange Mango

Batch ID or Lot Number: <b>NCC1010</b>	Test, Test ID and Methods: Various	Matrix: Unit	Page 1 of 5
Reported: <b>02Feb2024</b>	Started: 02Feb2024	Received: 02Feb2024	


### Cannabinoids

Test ID: T000269774


Methods: TM14 (HPLC-DAD)

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.149	0.496	ND	ND	# of Servings = 1, Sample Weight=355g
Cannabichromenic Acid (CBCA)	0.136	0.454	ND	ND	
Cannabidiol (CBD)	0.495	1.531	ND	ND	
Cannabidiolic Acid (CBDA)	0.508	1.571	ND	ND	
Cannabidivarin (CBDV)	0.117	0.362	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.212	0.655	ND	ND	
Cannabigerol (CBG)	0.085	0.282	ND	ND	
Cannabigerolic Acid (CBGA)	0.354	1.178	ND	ND	
Cannabinol (CBN)	0.110	0.367	ND	ND	
Cannabinolic Acid (CBNA)	0.242	0.803	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.422	1.403	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.383	1.274	10.150	0.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.339	1.129	ND	ND	
Tetrahydrocannabivarin (THCV)	0.077	0.256	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.299	0.996	ND	ND	
<b>Total Cannabinoids</b>			<b>10.150</b>	<b>0.00</b>	
Total Potential THC			10.150	0.00	
Total Potential CBD			ND	ND	

### Final Approval

 Sam Smith  
02Feb2024  
01:58:00 PM MST

PREPARED BY / DATE

 Karen Winternheimer  
02Feb2024  
02:00:00 PM MST

APPROVED BY / DATE

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**Residual Solvents**

Test ID: T000269778  
Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	91 - 1830	ND	
Butanes (Isobutane, n-Butane)	167 - 3341	ND	
Methanol	62 - 1244	ND	
Pentane	90 - 1803	ND	
Ethanol	90 - 1801	ND	
Acetone	99 - 1978	ND	
Isopropyl Alcohol	101 - 2020	ND	
Hexane	6 - 125	ND	
Ethyl Acetate	100 - 1991	ND	
Benzene	0.2 - 4.0	ND	
Heptanes	95 - 1908	ND	
Toluene	18 - 352	ND	
Xylenes (m,p,o-Xylenes)	120 - 2399	ND	

**Final Approval**

  
Sam Smith  
05Feb2024  
11:41:00 AM MST  
PREPARED BY / DATE

  
Karen Winternheimer  
05Feb2024  
11:41:00 AM MST  
APPROVED BY / DATE

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**Microbial Contaminants**

Test ID: T000269776

Methods: TM25 (PCR) TM24, TM26, TM27 (Culture Plating)

	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 <sup>0</sup> CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
<i>Salmonella</i>	TM25: PCR	10 <sup>0</sup> CFU/25g	NA	Absent	
Total Yeast and Mold*	TM24: Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup>	None Detected	
Total Aerobic Count*	TM26: Culture Plating	10 <sup>2</sup> CFU/g	1.0x10 <sup>3</sup> - 1.5x10 <sup>5</sup>	None Detected	
Total Coliforms*	TM27: Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup>	None Detected	

**Final Approval**

  
Eden Thompson-Wright  
05Feb2024  
03:03:00 PM MST  
PREPARED BY / DATE

  
Brianne Maillot  
05Feb2024  
03:32:00 PM MST  
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Prepared for:  
**North Brands LLC**

## North High Tonics Blood Orange Mango

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### Pesticides


Test ID: T000269775

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	322 - 2692	ND		Malathion	300 - 2685	ND
Acephate	40 - 2713	ND		Metalaxyl	43 - 2693	ND
Acetamiprid	42 - 2711	ND		Methiocarb	42 - 2675	ND
Azoxystrobin	46 - 2680	ND		Methomyl	41 - 2765	ND
Bifenazate	43 - 2700	ND		MGK 264 1	145 - 1627	ND
Boscalid	47 - 2707	ND		MGK 264 2	110 - 1097	ND
Carbaryl	42 - 2691	ND		Myclobutanil	50 - 2631	ND
Carbofuran	42 - 2677	ND		Naled	44 - 2668	ND
Chlorantraniliprole	48 - 2651	ND		Oxamyl	41 - 2770	ND
Chlorpyrifos	48 - 2744	ND		Paclobutrazol	45 - 2671	ND
Clofentezine	282 - 2731	ND		Permethrin	300 - 2757	ND
Diazinon	293 - 2717	ND		Phosmet	42 - 2585	ND
Dichlorvos	286 - 2745	ND		Prophos	289 - 2668	ND
Dimethoate	41 - 2702	ND		Propoxur	41 - 2692	ND
E-Fenpyroximate	222 - 2857	ND		Pyridaben	286 - 2731	ND
Etofenprox	44 - 2759	ND		Spinosad A	34 - 2091	ND
Etoxazole	292 - 2664	ND		Spinosad D	67 - 674	ND
Fenoxycarb	41 - 2669	ND		Spiromesifen	273 - 2744	ND
Fipronil	50 - 2773	ND		Spirotetramat	300 - 2772	ND
Flonicamid	41 - 2768	ND		Spiroxamine 1	16 - 1015	ND
Fludioxonil	278 - 2672	ND		Spiroxamine 2	22 - 1572	ND
Hexythiazox	42 - 2774	ND		Tebuconazole	290 - 2684	ND
Imazalil	278 - 2725	ND		Thiacloprid	42 - 2720	ND
Imidacloprid	40 - 2726	ND		Thiamethoxam	42 - 2744	ND
Kresoxim-methyl	43 - 2742	ND		Trifloxystrobin	44 - 2700	ND

### Final Approval

  
 Karen Winternheimer  
 07Feb2024  
 08:52:00 AM MST  
 PREPARED BY / DATE

  
 Sam Smith  
 07Feb2024  
 08:55:00 AM MST  
 APPROVED BY / DATE

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## Heavy Metals

Test ID: T000269777

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.69	ND	
Cadmium	0.04 - 4.48	ND	
Mercury	0.05 - 4.78	ND	
Lead	0.05 - 4.75	ND	

## Final Approval

  
Samantha Smith  
06Feb2024  
04:47:00 PM MST

PREPARED BY / DATE

  
Karen Winternheimer  
07Feb2024  
11:12:00 AM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/3603e5d8-0ed4-419e-bffa-8f7ab8142987>

## 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<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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