

Prepared for:
Himiko Organics

Advanced Nano Tinctures (Broad Spec)


Batch ID or Lot Number: TN15B2401	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 1 of 7
Reported: 16Feb2024	Started: 15Feb2024	Received: 15Feb2024	


**Residual Solvents -
Colorado Compliance**

Test ID: T000270404
Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	77 - 1543	ND	
Butanes (Isobutane, n-Butane)	169 - 3370	ND	
Methanol	58 - 1168	ND	
Pentane	71 - 1416	ND	
Ethanol	80 - 1601	ND	
Acetone	86 - 1716	ND	
Isopropyl Alcohol	98 - 1958	ND	
Hexane	6 - 118	ND	
Ethyl Acetate	96 - 1928	ND	
Benzene	0.2 - 3.8	ND	
Heptanes	84 - 1682	ND	
Toluene	15 - 306	ND	
Xylenes (m,p,o-Xylenes)	113 - 2266	ND	

Final Approval


Karen Winternheimer
16Feb2024
09:18:00 AM MST
PREPARED BY / DATE


Sam Smith
16Feb2024
09:20:00 AM MST
APPROVED BY / DATE

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Cannabinoids - Colorado Compliance

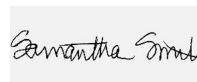
Test ID: T000270399

Methods: TM14 (HPLC-DAD): Potency - Broad Spectrum Analysis, 0.01% THC

	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.006	0.022	ND	ND	
Cannabichromenic Acid (CBCA)	0.005	0.020	ND	ND	
Cannabidiol (CBD)	0.024	0.067	1.746	17.46	
Cannabidiolic Acid (CBDA)	0.025	0.069	ND	ND	
Cannabidivarin (CBDV)	0.006	0.016	0.021	0.21	
Cannabidivarinic Acid (CBDVA)	0.010	0.029	ND	ND	
Cannabigerol (CBG)	0.003	0.012	ND	ND	
Cannabigerolic Acid (CBGA)	0.014	0.052	ND	ND	
Cannabinol (CBN)	0.004	0.016	ND	ND	
Cannabinolic Acid (CBNA)	0.009	0.035	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.017	0.061	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.003	0.009	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.002	0.008	ND	ND	
Tetrahydrocannabivarin (THCV)	0.003	0.011	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.012	0.044	ND	ND	
Total Cannabinoids			1.767	17.67	
Total Potential THC			ND	ND	
Total Potential CBD			1.746	17.46	

Final Approval


 Karen Winternheimer
 18Feb2024
 09:45:00 AM MST
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 Sam Smith
 18Feb2024
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Mycotoxins - Colorado Compliance

Test ID: T000270405
Methods: TM18 (UHPLC-QQ)
LCMS/MS: Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	2.25 - 126.83	ND	N/A
Aflatoxin B1	0.91 - 32.61	ND	
Aflatoxin B2	0.94 - 32.42	ND	
Aflatoxin G1	0.94 - 32.64	ND	
Aflatoxin G2	0.94 - 32.86	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval

	Karen Winternheimer 18Feb2024 10:21:00 AM MST		Sam Smith 18Feb2024 10:23:00 AM MST
PREPARED BY / DATE		APPROVED BY / DATE	

Microbial Contaminants - Colorado Compliance

Test ID: T000270402
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

	Brienne Maillot 19Feb2024 10:09:00 AM MST		Eden Thompson-Wright 19Feb2024 02:01:00 PM MST
PREPARED BY / DATE		APPROVED BY / DATE	

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**Heavy Metals -
Colorado Compliance**

Test ID: T000270403
Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 5.10	ND	
Cadmium	0.05 - 4.91	ND	
Mercury	0.05 - 5.15	ND	
Lead	0.05 - 5.11	ND	

Final Approval


PREPARED BY / DATE
Sam Smith
20Feb2024
09:38:00 AM MST


APPROVED BY / DATE
Sam Smith
20Feb2024
09:43:00 AM MST

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Himiko Organics

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Pesticides


Test ID: T000270401

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	277 - 2691	ND		Malathion	290 - 2684	ND
Acephate	42 - 2661	ND		Metalaxyl	43 - 2715	ND
Acetamiprid	41 - 2675	ND		Methiocarb	43 - 2701	ND
Azoxystrobin	48 - 2688	ND		Methomyl	40 - 2717	ND
Bifenazate	44 - 2695	ND		MGK 264 1	170 - 1633	ND
Boscalid	46 - 2666	ND		MGK 264 2	100 - 1073	ND
Carbaryl	42 - 2691	ND		Myclobutanil	40 - 2682	ND
Carbofuran	44 - 2692	ND		Naled	45 - 2651	ND
Chlorantraniliprole	40 - 2671	ND		Oxamyl	41 - 2712	ND
Chlorpyrifos	53 - 2685	ND		Paclobutrazol	46 - 2710	ND
Clofentezine	273 - 2698	ND		Permethrin	284 - 2754	ND
Diazinon	290 - 2692	ND		Phosmet	41 - 2562	ND
Dichlorvos	290 - 2674	ND		Prophos	291 - 2668	ND
Dimethoate	40 - 2684	ND		Propoxur	42 - 2697	ND
E-Fenpyroximate	258 - 2738	ND		Pyridaben	291 - 2708	ND
Etofenprox	46 - 2699	ND		Spinosad A	32 - 2080	ND
Etoxazole	289 - 2622	ND		Spinosad D	66 - 668	ND
Fenoxycarb	42 - 2696	ND		Spiromesifen	261 - 2707	ND
Fipronil	41 - 2821	ND		Spirotetramat	288 - 2747	ND
Flonicamid	50 - 2744	ND		Spiroxamine 1	16 - 1023	ND
Fludioxonil	303 - 2688	ND		Spiroxamine 2	25 - 1588	ND
Hexythiazox	42 - 2739	ND		Tebuconazole	287 - 2690	ND
Imazalil	275 - 2727	ND		Thiacloprid	42 - 2695	ND
Imidacloprid	43 - 2746	ND		Thiamethoxam	42 - 2725	ND
Kresoxim-methyl	42 - 2730	ND		Trifloxystrobin	45 - 2706	ND

Final Approval


 Karen Winternheimer
 28Feb2024
 10:34:00 AM MST
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 Sam Smith
 28Feb2024
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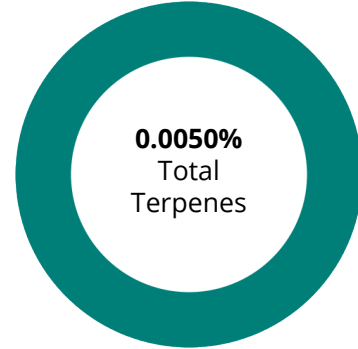
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Terpenes

Test ID: T000270400

Methods: TM22 (GC-MS)

	%(w/w)	(mg/g)
(-)-alpha-Bisabolol	0.0000	0.0000
(-)-beta-Pinene	0.0000	0.0000
(-)-Caryophyllene Oxide	0.0000	0.0000
(-)-Isopulegol	0.0000	0.0000
alpha-Humulene	0.0000	0.0000
alpha-Pinene	0.0000	0.0000
alpha-Terpinene	0.0000	0.0000
beta-Caryophyllene	0.0050	0.050
beta-Myrcene	0.0000	0.0000
beta-Ocimene	0.0000	0.0000
Camphene	0.0000	0.0000
cis-Nerolidol	0.0000	0.0000
d-Limonene	0.0000	0.0000
delta-3-Carene	0.0000	0.0000
Eucalyptol	0.0000	0.0000
gamma-Terpinene	0.0000	0.0000
Geraniol	0.0000	0.0000
Linalool	0.0000	0.0000
Ocimene	0.0000	0.0000
p-Cymene	0.0000	0.0000
Terpinolene	0.0000	0.0000
trans-Nerolidol	0.0000	0.0000
	0.0050	0.0500





PREDOMINANT TERPENES

(-)-alpha-Bisabolol	0.0000
(-)-beta-Pinene	0.0000
alpha-Humulene	0.0000
alpha-Pinene	0.0000
alpha-Terpinene	0.0000
beta-Caryophyllene	0.0050
beta-Myrcene	0.0000
d-Limonene	0.0000
delta-3-Carene	0.0000
Linalool	0.0000

Notes

Final Approval


 Sam Smith
 29Feb2024
 01:13:00 PM MST
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 Karen Winternheimer
 29Feb2024
 01:14:00 PM MST
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<https://results.botanacor.com/api/v1/coas/uuid/295f7a0b-3d73-46f5-85e4-428d07e88dfe>

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 \times (0.877)) and Total CBD = CBD + (CBDa \times (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 \times (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 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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