

Prepared for:
Nuleaf Naturals
1550 Larimer St #964
Denver, CO USA 80202

D429

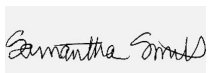
Batch ID or Lot Number: LB-O-60584	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 1 of 6
Reported: 22Jul2024	Started: 22Jul2024	Received: 18Jul2024	

**Residual Solvents -
Colorado Compliance**

Test ID: T000286643
Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	68 - 1356	ND	
Butanes (Isobutane, n-Butane)	144 - 2882	ND	
Methanol	57 - 1136	ND	
Pentane	76 - 1520	ND	
Ethanol	88 - 1762	ND	
Acetone	90 - 1800	ND	
Isopropyl Alcohol	98 - 1953	ND	
Hexane	5 - 108	ND	
Ethyl Acetate	93 - 1858	ND	
Benzene	0.2 - 3.7	ND	
Heptanes	86 - 1717	ND	
Toluene	17 - 337	ND	
Xylenes (m,p,o-Xylenes)	122 - 2442	ND	

Final Approval

 K Winternheimer PREPARED BY / DATE	Karen Winternheimer 22Jul2024 12:43:00 PM MDT	 Samantha Smith APPROVED BY / DATE	Sam Smith 22Jul2024 12:45:00 PM MDT
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**Microbial
Contaminants -
Colorado Compliance**

Test ID: T000286641

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
<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



Brett Hudson
22Jul2024
04:44:00 PM MDT

PREPARED BY / DATE



Brianne Maillot
22Jul2024
04:47:00 PM MDT

APPROVED BY / DATE

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Cannabinoids - Colorado Compliance

Test ID: T000286639

Methods: TM14 (HPLC-DAD): Potency – Standard

Cannabinoid Analysis

	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.050	0.186	1.717	1.85	Density = 0.926g/mL
Cannabichromenic Acid (CBCA)	0.046	0.170	ND	ND	
Cannabidiol (CBD)	0.210	0.521	58.641	63.33	
Cannabidiolic Acid (CBDA)	0.216	0.534	1.813	1.96	
Cannabidivarin (CBDV)	0.050	0.123	0.176	0.19	
Cannabidivarinic Acid (CBDVA)	0.090	0.223	ND	ND	
Cannabigerol (CBG)	0.028	0.106	2.863	3.09	
Cannabigerolic Acid (CBGA)	0.119	0.442	ND	ND	
Cannabinol (CBN)	0.037	0.138	<LOQ	<LOQ	
Cannabinolic Acid (CBNA)	0.081	0.301	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.142	0.526	<LOQ	<LOQ	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.129	0.478	1.833	1.98	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.114	0.423	ND	ND	
Tetrahydrocannabivarin (THCV)	0.026	0.096	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.101	0.373	ND	ND	
Total Cannabinoids			67.043	72.40	
Total Potential THC			1.833	1.98	
Total Potential CBD			60.231	65.05	

Final Approval



Karen Winternheimer
23Jul2024
09:53:00 AM MDT

PREPARED BY / DATE



Sam Smith
23Jul2024
09:59:00 AM MDT

APPROVED BY / DATE

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Mycotoxins - Colorado Compliance

Test ID: T000286644
Methods: TM18 (UHPLC-QQQ
LCMS/MS): Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	1.62 - 140.24	ND	N/A
Aflatoxin B1	1.06 - 34.50	ND	
Aflatoxin B2	1.06 - 33.97	ND	
Aflatoxin G1	1.09 - 34.27	ND	
Aflatoxin G2	1.26 - 34.43	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval

 K. Winternheimer PREPARED BY / DATE	Karen Winternheimer 24Jul2024 08:57:00 AM MDT	 S. Smith APPROVED BY / DATE	Sam Smith 24Jul2024 09:00:00 AM MDT
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Heavy Metals - Colorado Compliance

Test ID: T000286642
Methods: TM19 (ICP-MS): Heavy Metals

	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.65	ND	
Cadmium	0.05 - 4.85	ND	
Mercury	0.05 - 4.65	ND	
Lead	0.05 - 4.91	ND	

Final Approval

 K. Winternheimer PREPARED BY / DATE	Karen Winternheimer 24Jul2024 01:40:00 PM MDT	 S. Smith APPROVED BY / DATE	Sam Smith 24Jul2024 03:03:00 PM MDT
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Pesticides

Test ID: T000286640

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	371 - 2793	ND		Malathion	275 - 2665	ND
Acephate	41 - 2752	ND		Metalaxyl	44 - 2707	ND
Acetamiprid	43 - 2695	ND		Methiocarb	38 - 2721	ND
Azoxystrobin	44 - 2693	ND		Methomyl	42 - 2753	ND
Bifenazate	42 - 2685	ND		MGK 264 1	141 - 1597	ND
Boscalid	42 - 2706	ND		MGK 264 2	107 - 1094	ND
Carbaryl	39 - 2725	ND		Myclobutanil	42 - 2695	ND
Carbofuran	41 - 2705	ND		Naled	51 - 2687	ND
Chlorantraniliprole	43 - 2705	ND		Oxamyl	44 - 2749	ND
Chlorpyrifos	25 - 2786	ND		Paclobutrazol	42 - 2710	ND
Clofentezine	272 - 2710	ND		Permethrin	289 - 2669	ND
Diazinon	262 - 2701	ND		Phosmet	40 - 2576	ND
Dichlorvos	279 - 2746	ND		Prophos	286 - 2735	ND
Dimethoate	43 - 2697	ND		Propoxur	40 - 2724	ND
E-Fenpyroximate	259 - 2793	ND		Pyridaben	268 - 2833	ND
Etofenprox	39 - 2756	ND		Spinosad A	32 - 2073	ND
Etoxazole	259 - 2731	ND		Spinosad D	59 - 682	ND
Fenoxycarb	52 - 2698	ND		Spiromesifen	221 - 2809	ND
Fipronil	52 - 2760	ND		Spirotetramat	274 - 2723	ND
Flonicamid	52 - 2767	ND		Spiroxamine 1	15 - 1031	ND
Fludioxonil	289 - 2726	ND		Spiroxamine 2	24 - 1604	ND
Hexythiazox	40 - 2810	ND		Tebuconazole	282 - 2694	ND
Imazalil	245 - 2712	ND		Thiacloprid	42 - 2725	ND
Imidacloprid	41 - 2714	ND		Thiamethoxam	42 - 2739	ND
Kresoxim-methyl	44 - 2746	ND		Trifloxystrobin	42 - 2711	ND

Final Approval



Karen Winterheimer
25Jul2024
10:15:00 AM MDT

PREPARED BY / DATE



Sam Smith
25Jul2024
10:18:00 AM MDT

APPROVED BY / DATE

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<https://results.botanacor.com/api/v1/coas/uuid/6c830fb3-2a59-4ffb-8d40-c7da949afdf7>

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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