

Prepared for:
Nuleaf Naturals

1550 Larimer St #964
Denver, CO USA 80202

D342

Batch ID or Lot Number: LB-O-60488	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 1 of 4
Reported: 20Oct2023	Started: 18Oct2023	Received: 18Oct2023	


Residual Solvents - Colorado Compliance

Test ID: T000259267


Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	90 - 1805	ND	
Butanes (Isobutane, n-Butane)	178 - 3559	ND	
Methanol	61 - 1221	ND	
Pentane	87 - 1736	ND	
Ethanol	100 - 2006	ND	
Acetone	95 - 1904	ND	
Isopropyl Alcohol	111 - 2215	ND	
Hexane	6 - 114	ND	
Ethyl Acetate	100 - 1991	ND	
Benzene	0.2 - 3.9	ND	
Heptanes	92 - 1843	ND	
Toluene	18 - 365	ND	
Xylenes (m,p,o-Xylenes)	136 - 2726	ND	

Final Approval

 Karen Winternheimer
20Oct2023
09:50:00 AM MDT

PREPARED BY / DATE

 Sam Smith
20Oct2023
10:01:00 AM MDT

APPROVED BY / DATE

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Microbial Contaminants - Colorado Compliance

Test ID: T000259265
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
21Oct2023
12:59:00 PM MDT



Brianne Maillot
22Oct2023
12:39:00 PM MDT

PREPARED BY / DATE

APPROVED BY / DATE

Heavy Metals - Colorado Compliance

Test ID: T000259266
Methods: TM19 (ICP-MS): Heavy
Metals

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.39	ND	
Cadmium	0.04 - 4.47	ND	
Mercury	0.05 - 4.62	ND	
Lead	0.05 - 4.60	ND	

Final Approval



Sam Smith
23Oct2023
01:08:00 PM MDT



Karen Winternheimer
23Oct2023
01:11:00 PM MDT

PREPARED BY / DATE

APPROVED BY / DATE

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Cannabinoids - Colorado Compliance

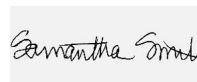
Test ID: T000259263

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

Cannabinoid Analysis	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.059	0.199	2.232	2.41	Density = 0.926g/mL
Cannabichromenic Acid (CBCA)	0.054	0.182	ND	ND	
Cannabidiol (CBD)	0.223	0.532	59.384	64.13	
Cannabidiolic Acid (CBDA)	0.229	0.546	1.129	1.22	
Cannabidivarin (CBDV)	0.053	0.126	0.357	0.39	
Cannabidivarinic Acid (CBDVA)	0.095	0.228	ND	ND	
Cannabigerol (CBG)	0.034	0.113	1.022	1.10	
Cannabigerolic Acid (CBGA)	0.140	0.472	ND	ND	
Cannabinol (CBN)	0.044	0.147	<LOQ	<LOQ	
Cannabinolic Acid (CBNA)	0.096	0.322	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.167	0.563	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.152	0.511	1.836	1.98	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.134	0.453	ND	ND	
Tetrahydrocannabivarin (THCV)	0.031	0.103	<LOQ	<LOQ	
Tetrahydrocannabivarinic Acid (THCVA)	0.119	0.399	ND	ND	
Total Cannabinoids			65.960	71.23	
Total Potential THC			1.836	1.98	
Total Potential CBD			60.374	65.20	

Final Approval


Karen Winternheimer
23Oct2023
10:26:00 AM MDT
PREPARED BY / DATE


Sam Smith
23Oct2023
10:28:00 AM MDT
APPROVED BY / DATE

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Mycotoxins - Colorado Compliance

Test ID: T000259268
Methods: TM18 (UHPLC-QQQ)

LCMS/MS): Mycotoxins	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	2.44 - 133.04	ND	N/A
Aflatoxin B1	0.99 - 33.29	ND	
Aflatoxin B2	0.92 - 33.03	ND	
Aflatoxin G1	0.96 - 33.49	ND	
Aflatoxin G2	1.12 - 34.15	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval


Samantha Simms
24Oct2023
07:50:00 AM MDT
PREPARED BY / DATE


Karen Winternheimer
24Oct2023
08:04:00 AM MDT
APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/e9cecb4b-589d-4767-a724-9c3714793a41>

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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