SC Labs®
Formerly Botanacor Labs

CERTIFICATE OF ANALYSIS

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

D342

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

Brett Hudson
21Oct2023
12:59:00 PM MDT
PREPARED BY / DATE

Brianne Maillot
22Oct2023
12:39:00 PM MDT
APPROVED BY / DATE

Heavy Metals - Colorado Compliance

Test ID: T000259266
Methods: TM19 (ICP-MS): Heavy 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
PREPARED BY / DATE

Karen Winternheimer
23Oct2023
01:11:00 PM MDT
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 Smith
Sam Smith
24Oct2023
07:50:00 AM MDT
PREPARED BY / DATE

K Winternheimer
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: 10^2 = 100 CFU, 10^3 = 1,000 CFU, 10^4 = 10,000 CFU, 10^5 = 100,000 CFU.

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