

Prepared for:
Nuleaf Naturals

1550 Larimer St #964
Denver, CO USA 80202

D446

Batch ID or Lot Number: LB-O-60624	Test, Test ID and Methods: Various	Matrix: Solution	Page 1 of 6
Reported: 15Nov2024	Started: 15Nov2024	Received: 14Nov2024	

Cannabinoids

Test ID: T000293938

Methods: TM14 (HPLC-DAD)

	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.053	0.168	2.020	2.20	Density = 0.926g/mL
Cannabichromenic Acid (CBCA)	0.048	0.154	ND	ND	
Cannabidiol (CBD)	0.133	0.452	66.750	72.10	
Cannabidiolic Acid (CBDA)	0.136	0.464	1.190	1.30	
Cannabidivarin (CBDV)	0.031	0.107	0.240	0.30	
Cannabidivarinic Acid (CBDVA)	0.057	0.194	ND	ND	
Cannabigerol (CBG)	0.030	0.095	1.350	1.50	
Cannabigerolic Acid (CBGA)	0.125	0.399	ND	ND	
Cannabinol (CBN)	0.039	0.124	0.140	0.20	
Cannabinolic Acid (CBNA)	0.085	0.272	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.148	0.475	<LOQ	<LOQ	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.135	0.431	1.810	2.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.119	0.382	ND	ND	
Tetrahydrocannabivarin (THCV)	0.027	0.087	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.105	0.337	ND	ND	
Total Cannabinoids			73.500	79.60	
Total Potential THC			1.810	2.00	
Total Potential CBD			67.794	73.24	

Final Approval


Judith Marquez
15Nov2024
02:06:00 PM MST
PREPARED BY / DATE


Sam Smith
15Nov2024
02:47:00 PM MST
APPROVED BY / DATE

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Residual Solvents

Test ID: T000293942

Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	87 - 1742	ND	
Butanes (Isobutane, n-Butane)	175 - 3493	ND	
Methanol	61 - 1219	ND	
Pentane	90 - 1801	ND	
Ethanol	90 - 1798	ND	
Acetone	97 - 1948	ND	
Isopropyl Alcohol	101 - 2021	ND	
Hexane	6 - 123	ND	
Ethyl Acetate	99 - 1986	ND	
Benzene	0.2 - 3.9	ND	
Heptanes	96 - 1920	ND	
Toluene	18 - 359	ND	
Xylenes (m,p,o-Xylenes)	130 - 2595	ND	

Final Approval


Judith Marquez
19Nov2024
07:57:00 AM MST
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Sam Smith
19Nov2024
08:58:00 AM MST
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Mycotoxins

Test ID: T000293943

Methods: TM18 (UHPLC-QQQ

LCMS/MS): Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	1.64 - 134.47	ND	N/A
Aflatoxin B1	0.95 - 33.32	ND	
Aflatoxin B2	1.01 - 33.13	ND	
Aflatoxin G1	1.01 - 33.13	ND	
Aflatoxin G2	1.11 - 33.76	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval


Sam Smith
21Nov2024
08:49:00 AM MST
PREPARED BY / DATE


Karen Winternheimer
21Nov2024
08:51:00 AM MST
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Pesticides

Test ID: T000293939

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)
Abamectin	226 - 2728	ND
Acephate	40 - 2843	ND
Acetamiprid	39 - 2733	ND
Azoxystrobin	42 - 2733	ND
Bifenazate	45 - 2705	ND
Boscalid	39 - 2659	ND
Carbaryl	42 - 2702	ND
Carbofuran	44 - 2677	ND
Chlorantraniliprole	43 - 2675	ND
Chlorpyrifos	36 - 2724	ND
Clofentezine	276 - 2720	ND
Diazinon	276 - 2734	ND
Dichlorvos	268 - 2792	ND
Dimethoate	39 - 2737	ND
E-Fenpyroximate	278 - 2791	ND
Etofenprox	40 - 2776	ND
Etoxazole	280 - 2697	ND
Fenoxycarb	45 - 2730	ND
Fipronil	48 - 2742	ND
Flonicamid	44 - 2795	ND
Fludioxonil	294 - 2803	ND
Hexythiazox	39 - 2810	ND
Imazalil	274 - 2771	ND
Imidacloprid	44 - 2779	ND
Kresoxim-methyl	43 - 2764	ND

	Dynamic Range (ppb)	Result (ppb)
Malathion	284 - 2712	ND
Metalaxyl	41 - 2727	ND
Methiocarb	44 - 2693	ND
Methomyl	42 - 2800	ND
MGK 264 1	148 - 1623	ND
MGK 264 2	94 - 1102	ND
Myclobutanil	45 - 2626	ND
Naled	37 - 2610	ND
Oxamyl	43 - 2793	ND
Paclobutrazol	42 - 2680	ND
Permethrin	298 - 2815	ND
Phosmet	43 - 2608	ND
Prophos	283 - 2693	ND
Propoxur	42 - 2702	ND
Pyridaben	269 - 2805	ND
Spinosad A	31 - 2075	ND
Spinosad D	61 - 670	ND
Spiromesifen	250 - 2738	ND
Spirotetramat	286 - 2764	ND
Spiroxamine 1	16 - 1014	ND
Spiroxamine 2	25 - 1586	ND
Tebuconazole	300 - 2702	ND
Thiacloprid	43 - 2779	ND
Thiamethoxam	40 - 2781	ND
Trifloxystrobin	42 - 2712	ND

Final Approval


PREPARED BY / DATE
Sam Smith
22Nov2024
10:37:00 AM MST


APPROVED BY / DATE
Karen Winternheimer
22Nov2024
10:39:00 AM MST

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Heavy Metals

Test ID: T000293941

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.65	ND	
Cadmium	0.05 - 4.60	ND	
Mercury	0.05 - 4.72	ND	
Lead	0.05 - 4.67	ND	

Final Approval



Judith Marquez
22Nov2024
01:35:00 PM MST

PREPARED BY / DATE



Sam Smith
22Nov2024
01:40:00 PM MST

APPROVED BY / DATE

Microbial Contaminants

Test ID: T000293940

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

	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



Nora Langer
18Nov2024
04:29:00 PM MST

PREPARED BY / DATE



Brett Hudson
03Dec2024
01:14:00 PM MST

APPROVED BY / DATE

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<https://results.botanacor.com/api/v1/coas/uuid/50d42833-c920-4265-9f2b-1a68bf80d163>

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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