

CERTIFICATE OF ANALYSIS

Prepared for:
Nuleaf Naturals

1550 Larimer St #964
Denver, CO USA 80202


D242

| | | | |
|--|---|-------------------------------|----------------------|
| Batch ID or Lot Number: LB-O-60319 | Test: Potency | Reported: 17Oct2022 | USDA License: N/A |
| Matrix: Solution | Test ID: T000224517 | Started: 13Oct2022 | Sampler ID: N/A |
| | Method(s): TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis | Received: 12Oct2022 | Status: Active |

Cannabinoids

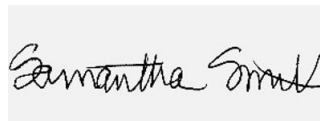
| | LOD (mg/mL) | LOQ (mg/mL) | Result (mg/mL) | Result (mg/g) | Notes |
|--|-------------|-------------|----------------|---------------|------------------------|
| Cannabichromene (CBC) | 0.058 | 0.213 | ND | ND | Density = 0.929g/mL |
| Cannabichromenic Acid (CBCA) | 0.053 | 0.195 | ND | ND | |
| Cannabidiol (CBD) | 0.184 | 0.544 | 63.817 | 68.69 | |
| Cannabidiolic Acid (CBDA) | 0.189 | 0.558 | 1.773 | 1.91 | |
| Cannabidivarin (CBDV) | 0.044 | 0.129 | 0.135 | 0.15 | |
| Cannabidivarinic Acid (CBDVA) | 0.079 | 0.233 | ND | ND | |
| Cannabigerol (CBG) | 0.033 | 0.121 | 1.278 | 1.38 | |
| Cannabigerolic Acid (CBGA) | 0.137 | 0.506 | ND | ND | |
| Cannabinol (CBN) | 0.043 | 0.158 | <LOQ | 0.05 | |
| Cannabinolic Acid (CBNA) | 0.094 | 0.345 | <LOQ | 0.25 | |
| Delta 8-Tetrahydrocannabinol (Delta 8-THC) | 0.163 | 0.603 | ND | ND | |
| Delta 9-Tetrahydrocannabinol (Delta 9-THC) | 0.148 | 0.548 | 2.373 | 2.55 | |
| Delta 9-Tetrahydrocannabinolic Acid (THCA-A) | 0.131 | 0.485 | ND | ND | |
| Tetrahydrocannabivarin (THCV) | 0.030 | 0.110 | ND | ND | |
| Tetrahydrocannabivarinic Acid (THCVA) | 0.116 | 0.428 | ND | ND | |
| Total Cannabinoids | | | 69.656 | 74.98 | |
| Total Potential THC | | | 2.373 | 2.55 | |
| Total Potential CBD | | | 65.372 | 70.37 | |

Final Approval



Karen Winternheimer
17Oct2022
02:02:00 PM MDT

PREPARED BY / DATE



Sam Smith
17Oct2022
02:05:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/90b9d1d4-d772-4642-8379-12f75ab1f0be>

Definitions

% = % (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)).

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 Accredited by A2LA.



Cert #4329.02

CDPHE Certified

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CERTIFICATE OF ANALYSIS

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Nuleaf Naturals


1550 Larimer St #964
Denver, CO USA 80202

D242

| | | | |
|--|---|-------------------------------|---------------------|
| Batch ID or Lot Number: LB-O-60319 | Test: Heavy Metals | Reported: 25Oct2022 | USDA License: NA |
| Matrix: Other | Test ID: T000224520 | Started: 24Oct2022 | Sampler ID: NA |
| | Method(s): TM19 (ICP-MS): Heavy Metals | Received: 12Oct2022 | Status: NA |

| Heavy Metals | Dynamic Range (ppm) | Result (ppm) | Notes |
|--------------|---------------------|--------------|-------|
| Arsenic | 0.04 - 4.19 | ND | |
| Cadmium | 0.04 - 4.28 | ND | |
| Mercury | 0.04 - 3.79 | ND | |
| Lead | 0.04 - 4.13 | ND | |

Final Approval



Sam Smith
25Oct2022
08:37:00 AM MDT

PREPARED BY / DATE



Karen Winternheimer
25Oct2022
08:42:00 AM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/0953393f-ab31-4cf6-bef8-2a2498d3f71f>

Definitions

ND = None Detected (defined by dynamic range of the method)
Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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CERTIFICATE OF ANALYSIS

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Nuleaf Naturals

1550 Larimer St #964
Denver, CO USA 80202


D242

| | | | |
|--|---|-------------------------------|----------------------|
| Batch ID or Lot Number: LB-O-60319 | Test: Microbial Contaminants | Reported: 16Oct2022 | USDA License: N/A |
| Matrix: General/Other | Test ID: T000224519 | Started: 12Oct2022 | Sampler ID: N/A |
| | Method(s): TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel) | Received: 12Oct2022 | Status: Active |

Microbial Contaminants

| Contaminants | 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



Eden Thompson-Wright
15Oct2022
10:46:00 AM MDT

PREPARED BY / DATE



Jacob Folkerts
16Oct2022
10:52:00 AM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/71e534c9-080b-4694-b741-503b8c0bb63f>

Definitions

* 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
CFU/g = Colony Forming Units per Gram, LOD = Limit of Detection
ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation
STEC = Shiga Toxin-Producing E. coli

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


D242

| | | | |
|--|-------------------------------------|-------------------------------|---------------------|
| Batch ID or Lot Number: LB-O-60319 | Test: Pesticides | Reported: 20Oct2022 | USDA License: NA |
| Matrix: Concentrate | Test ID: T000224518 | Started: 13Oct2022 | Sampler ID: NA |
| | Method(s): TM17 (LC-QQ LC MS/MS) | Received: 12Oct2022 | Status: NA |

Pesticides

| Pesticides | Dynamic Range (ppb) | Result (ppb) | Pesticides | Dynamic Range (ppb) | Result (ppb) |
|---------------------|---------------------|--------------|-----------------|---------------------|--------------|
| Abamectin | 336 - 2809 | ND | Malathion | 285 - 2713 | ND |
| Acephate | 43 - 2703 | ND | Metalaxyl | 40 - 2727 | ND |
| Acetamiprid | 40 - 2687 | ND | Methiocarb | 42 - 2749 | ND |
| Azoxystrobin | 41 - 2723 | ND | Methomyl | 42 - 2695 | ND |
| Bifenazate | 41 - 2706 | ND | MGK 264 1 | 166 - 1608 | ND |
| Boscalid | 35 - 2770 | ND | MGK 264 2 | 114 - 1138 | ND |
| Carbaryl | 40 - 2712 | ND | Myclobutanil | 48 - 2767 | ND |
| Carbofuran | 42 - 2712 | ND | Naled | 44 - 2779 | ND |
| Chlorantraniliprole | 43 - 2769 | ND | Oxamyl | 41 - 2689 | ND |
| Chlorpyrifos | 43 - 2788 | ND | Pacllobutrazol | 41 - 2720 | ND |
| Clofentezine | 276 - 2752 | ND | Permethrin | 24 - 2686 | ND |
| Diazinon | 271 - 2719 | ND | Phosmet | 41 - 2716 | ND |
| Dichlorvos | 278 - 2710 | ND | Prophos | 299 - 2767 | ND |
| Dimethoate | 42 - 2686 | ND | Propoxur | 39 - 2727 | ND |
| E-Fenpyroximate | 284 - 2744 | ND | Pyridaben | 262 - 2738 | ND |
| Etofenprox | 40 - 2750 | ND | Spinosad A | 33 - 2252 | ND |
| Etoxazole | 291 - 2729 | ND | Spinosad D | 49 - 502 | ND |
| Fenoxycarb | 41 - 2712 | ND | Spiromesifen | 289 - 2726 | ND |
| Fipronil | 34 - 2789 | ND | Spirotetramat | 268 - 2728 | ND |
| Flonicamid | 45 - 2683 | ND | Spiroxamine 1 | 16 - 1182 | ND |
| Fludioxonil | 289 - 2744 | ND | Spiroxamine 2 | 23 - 1592 | ND |
| Hexythiazox | 38 - 2747 | ND | Tebuconazole | 274 - 2744 | ND |
| Imazalil | 266 - 2779 | ND | Thiacloprid | 41 - 2692 | ND |
| Imidacloprid | 47 - 2700 | ND | Thiamethoxam | 42 - 2663 | ND |
| Kresoxim-methyl | 38 - 2758 | ND | Trifloxystrobin | 43 - 2731 | ND |

Final Approval



Karen Winternheimer
17Oct2022
02:09:00 PM MDT

PREPARED BY / DATE



Sam Smith
17Oct2022
02:12:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/e86d6833-44fd-4fb5-8426-48060af6d743>

Definitions

ND = None Detected (defined by dynamic range of the method)
Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range
ppb = Parts Per Billion

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Denver, CO USA 80202

D242

| | | | |
|--|---|-------------------------------|----------------------|
| Batch ID or Lot Number: LB-O-60319 | Test: Residual Solvents | Reported: 12Oct2022 | USDA License: N/A |
| Matrix: Concentrate | Test ID: T000224521 | Started: 12Oct2022 | Sampler ID: N/A |
| | Method(s): TM04 (GC-MS): Residual Solvents | Received: 12Oct2022 | Status: Active |

| Residual Solvents | Dynamic Range (ppm) | Result (ppm) | Notes |
|-------------------------------|---------------------|--------------|-------|
| Propane | 106 - 2130 | ND | |
| Butanes (Isobutane, n-Butane) | 219 - 4377 | ND | |
| Methanol | 63 - 1263 | ND | |
| Pentane | 111 - 2222 | ND | |
| Ethanol | 94 - 1882 | ND | |
| Acetone | 105 - 2101 | ND | |
| Isopropyl Alcohol | 93 - 1859 | ND | |
| Hexane | 7 - 134 | ND | |
| Ethyl Acetate | 103 - 2065 | ND | |
| Benzene | 0.2 - 4.1 | ND | |
| Heptanes | 108 - 2168 | ND | |
| Toluene | 16 - 328 | ND | |
| Xylenes (m,p,o-Xylenes) | 108 - 2162 | ND | |

Final Approval



Karen Winternheimer
13Oct2022
07:11:00 PM MDT

PREPARED BY / DATE



Sam Smith
13Oct2022
07:13:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/90d7b58f-24e6-4dca-b749-2ef7752f95b8>

Definitions

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Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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CERTIFICATE OF ANALYSIS

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Nuleaf Naturals


1550 Larimer St #964
Denver, CO USA 80202


D242

| | | | |
|--|---|-------------------------------|----------------------|
| Batch ID or Lot Number: LB-O-60319 | Test: Mycotoxins | Reported: 21Oct2022 | USDA License: N/A |
| Matrix: Concentrate | Test ID: T000224522 | Started: 19Oct2022 | Sampler ID: N/A |
| | Method(s): TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins | Received: 12Oct2022 | Status: Active |

| Mycotoxins | Dynamic Range (ppb) | Result (ppb) | Notes |
|---------------------------------------|---------------------|--------------|-------|
| Ochratoxin A | 1.29 - 118.01 | ND | N/A |
| Aflatoxin B1 | 0.85 - 30.05 | ND | |
| Aflatoxin B2 | 2.28 - 29.58 | ND | |
| Aflatoxin G1 | 0.97 - 29.79 | ND | |
| Aflatoxin G2 | 1.17 - 29.67 | ND | |
| Total Aflatoxins (B1, B2, G1, and G2) | | ND | |

Final Approval


Sam Smith
21Oct2022
10:29:00 AM MDT
PREPARED BY / DATE


Karen Winternheimer
21Oct2022
10:31:00 AM MDT
APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/cc34007b-0627-4ae9-90ce-3155cd87fee5>

Definitions
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