

CERTIFICATE OF ANALYSIS

Prepared for:
Elixinol LLC

10170 Church Ranch Way, Ste 400
Westminster, CO USA 80021

4000mg Natural Tincture - 230010

| | | | |
|--|---|-------------------------------|----------------------|
| Batch ID or Lot Number: 230010 | Test: Potency | Reported: 26Jan2023 | USDA License: N/A |
| Matrix: Solution | Test ID: T000233478 | Started: 25Jan2023 | Sampler ID: N/A |
| | Method(s): TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis | Received: 23Jan2023 | Status: Active |

Cannabinoids

| | LOD (mg/mL) | LOQ (mg/mL) | Result (mg/mL) | Result (mg/g) | Notes |
|--|-------------|-------------|----------------|---------------|--------------------------|
| Cannabichromene (CBC) | 0.166 | 0.529 | 1.306 | 1.37 | Density = 0.95276g/mL |
| Cannabichromenic Acid (CBCA) | 0.152 | 0.484 | ND | ND | |
| Cannabidiol (CBD) | 0.520 | 1.524 | 40.168 | 42.16 | |
| Cannabidiolic Acid (CBDA) | 0.534 | 1.563 | ND | ND | |
| Cannabidivarin (CBDV) | 0.123 | 0.360 | <LOQ | <LOQ | |
| Cannabidivarinic Acid (CBDVA) | 0.223 | 0.652 | ND | ND | |
| Cannabigerol (CBG) | 0.094 | 0.300 | 0.325 | 0.34 | |
| Cannabigerolic Acid (CBGA) | 0.395 | 1.256 | ND | ND | |
| Cannabinol (CBN) | 0.123 | 0.392 | ND | ND | |
| Cannabinolic Acid (CBNA) | 0.269 | 0.857 | ND | ND | |
| Delta 8-Tetrahydrocannabinol (Delta 8-THC) | 0.470 | 1.496 | ND | ND | |
| Delta 9-Tetrahydrocannabinol (Delta 9-THC) | 0.427 | 1.359 | <LOQ | <LOQ | |
| Delta 9-Tetrahydrocannabinolic Acid (THCA-A) | 0.378 | 1.204 | ND | ND | |
| Tetrahydrocannabivarin (THCV) | 0.086 | 0.273 | ND | ND | |
| Tetrahydrocannabivarinic Acid (THCVA) | 0.334 | 1.062 | ND | ND | |
| Total Cannabinoids | | | 41.799 | 43.87 | |
| Total Potential THC | | | <LOQ | <LOQ | |
| Total Potential CBD | | | 40.168 | 42.16 | |

Final Approval


Samantha Smith
26Jan2023
01:51:00 PM MST

PREPARED BY / DATE


Karen Winternheimer
26Jan2023
01:57:00 PM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/88f44206-e19e-411a-856a-7b948f256c60>

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

88f44206e19e411a856a7b948f256c60.1

CERTIFICATE OF ANALYSIS

Prepared for:
Elixinol LLC

10170 Church Ranch Way, Ste 400
Westminster, CO USA 80021

4000mg Natural Tincture - 230010

| | | | |
|--|---|-------------------------------|----------------------|
| Batch ID or Lot Number: 230010 | Test: Residual Solvents | Reported: 26Jan2023 | USDA License: N/A |
| Matrix: Concentrate | Test ID: T000233482 | Started: 25Jan2023 | Sampler ID: N/A |
| | Method(s): TM04 (GC-MS): Residual Solvents | Received: 23Jan2023 | Status: Active |

| Residual Solvents | Dynamic Range (ppm) | Result (ppm) | Notes |
|-------------------------------|---------------------|--------------|-------|
| Propane | 99 - 1987 | ND | |
| Butanes (Isobutane, n-Butane) | 200 - 4008 | ND | |
| Methanol | 58 - 1150 | ND | |
| Pentane | 98 - 1967 | ND | |
| Ethanol | 92 - 1837 | ND | |
| Acetone | 96 - 1918 | ND | |
| Isopropyl Alcohol | 93 - 1852 | ND | |
| Hexane | 6 - 118 | ND | |
| Ethyl Acetate | 95 - 1906 | ND | |
| Benzene | 0.2 - 3.8 | ND | |
| Heptanes | 97 - 1949 | ND | |
| Toluene | 17 - 332 | ND | |
| Xylenes (m,p,o-Xylenes) | 118 - 2351 | ND | |

Final Approval



Karen Winternheimer
26Jan2023
02:28:00 PM MST

PREPARED BY / DATE



Sam Smith
26Jan2023
02:32:00 PM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/1cb2f152-369d-4359-a9af-2f36030ee5e0>

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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Cert #4329.02

CDPHE Certified

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CERTIFICATE OF ANALYSIS

Prepared for:
Elixinol LLC


10170 Church Ranch Way, Ste 400
Westminster, CO USA 80021

4000mg Natural Tincture - 230010

| | | | |
|--|---|-------------------------------|---------------------|
| Batch ID or Lot Number: 230010 | Test: Heavy Metals | Reported: 26Jan2023 | USDA License: NA |
| Matrix: Unit Co | Test ID: T000233481 | Started: 25Jan2023 | Sampler ID: NA |
| | Method(s): TM19 (ICP-MS): Heavy Metals | Received: 23Jan2023 | Status: NA |

| Heavy Metals | Dynamic Range (ppm) | Result (ppm) | Notes |
|--------------|---------------------|--------------|-------|
| Arsenic | 0.04 - 4.42 | ND | |
| Cadmium | 0.04 - 4.32 | ND | |
| Mercury | 0.04 - 4.30 | ND | |
| Lead | 0.05 - 5.12 | ND | |

Final Approval



Sam Smith
26Jan2023
09:09:00 AM MST

PREPARED BY / DATE



Karen Winternheimer
26Jan2023
09:18:00 AM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/eaf89886-df14-4be3-95b1-7013d166cafe>

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

Prepared for:
Elixinol LLC

10170 Church Ranch Way, Ste 400
Westminster, CO USA 80021

4000mg Natural Tincture - 230010

| | | | |
|--|---|-------------------------------|----------------------|
| Batch ID or Lot Number: 230010 | Test: Microbial Contaminants | Reported: 30Jan2023 | USDA License: N/A |
| Matrix: Finished Product | Test ID: T000233480 | Started: 24Jan2023 | Sampler ID: N/A |
| | Method(s): TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel) | Received: 23Jan2023 | 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



Brett Hudson
30Jan2023
02:27:00 PM MST

PREPARED BY / DATE



Brianne Maillot
31Jan2023
07:06:00 PM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/55bc6ad9-1aa4-4fe1-b985-586b0a6e1ec3>

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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Cert #4329.02

CDPHE Certified

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Prepared for:
Elixinol LLC

10170 Church Ranch Way, Ste 400
Westminster, CO USA 80021

4000mg Natural Tincture - 230010

| | | | |
|--|-------------------------------------|-------------------------------|---------------------|
| Batch ID or Lot Number: 230010 | Test: Pesticides | Reported: 27Jan2023 | USDA License: NA |
| Matrix: Concentrate | Test ID: T000233479 | Started: 25Jan2023 | Sampler ID: NA |
| | Method(s): TM17 (LC-QQ LC MS/MS) | Received: 23Jan2023 | Status: NA |

| Pesticides | Dynamic Range (ppb) | Result (ppb) | Pesticides | Dynamic Range (ppb) | Result (ppb) |
|---------------------|---------------------|--------------|-----------------|---------------------|--------------|
| Abamectin | 309 - 2713 | ND | Malathion | 292 - 2720 | ND |
| Acephate | 38 - 2763 | ND | Metalaxyl | 42 - 2705 | ND |
| Acetamiprid | 40 - 2783 | ND | Methiocarb | 44 - 2669 | ND |
| Azoxystrobin | 42 - 2728 | ND | Methomyl | 40 - 2764 | ND |
| Bifenazate | 43 - 2678 | ND | MGK 264 1 | 180 - 1636 | ND |
| Boscalid | 42 - 2783 | ND | MGK 264 2 | 120 - 1144 | ND |
| Carbaryl | 42 - 2754 | ND | Myclobutanil | 46 - 2718 | ND |
| Carbofuran | 42 - 2725 | ND | Naled | 42 - 2796 | ND |
| Chlorantraniliprole | 39 - 2763 | ND | Oxamyl | 39 - 2775 | ND |
| Chlorpyrifos | 47 - 2762 | ND | Pacllobutrazol | 39 - 2732 | ND |
| Clofentezine | 268 - 2765 | ND | Permethrin | 274 - 2747 | ND |
| Diazinon | 284 - 2748 | ND | Phosmet | 40 - 2724 | ND |
| Dichlorvos | 300 - 2805 | ND | Prophos | 291 - 2708 | ND |
| Dimethoate | 39 - 2760 | ND | Propoxur | 43 - 2718 | ND |
| E-Fenpyroximate | 271 - 2753 | ND | Pyridaben | 282 - 2742 | ND |
| Etofenprox | 45 - 2751 | ND | Spinosad A | 32 - 2242 | ND |
| Etoxazole | 282 - 2727 | ND | Spinosad D | 47 - 503 | ND |
| Fenoxycarb | 44 - 2747 | ND | Spiromesifen | 281 - 2741 | ND |
| Fipronil | 54 - 2760 | ND | Spirotetramat | 289 - 2735 | ND |
| Flonicamid | 45 - 2832 | ND | Spiroxamine 1 | 17 - 1188 | ND |
| Fludioxonil | 312 - 2703 | ND | Spiroxamine 2 | 23 - 1540 | ND |
| Hexythiazox | 42 - 2778 | ND | Tebuconazole | 278 - 2733 | ND |
| Imazalil | 289 - 2706 | ND | Thiacloprid | 40 - 2775 | ND |
| Imidacloprid | 43 - 2784 | ND | Thiamethoxam | 41 - 2796 | ND |
| Kresoxim-methyl | 41 - 2759 | ND | Trifloxystrobin | 43 - 2756 | ND |

Final Approval



Karen Winternheimer
27Jan2023
08:03:00 AM MST

PREPARED BY / DATE



Sam Smith
27Jan2023
08:06:00 AM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/a09d4d9c-fd37-4826-84cd-3d4341d03780>

Definitions

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Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range
ppb = Parts Per Billion

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Cert #4329.02
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CERTIFICATE OF ANALYSIS

Prepared for:
Elixinol LLC


10170 Church Ranch Way, Ste 400
Westminster, CO USA 80021

4000mg Natural Tincture - 230010

| | | | |
|--|---|-------------------------------|----------------------|
| Batch ID or Lot Number: 230010 | Test: Mycotoxins | Reported: 25Jan2023 | USDA License: N/A |
| Matrix: Concentrate | Test ID: T000233484 | Started: 24Jan2023 | Sampler ID: N/A |
| | Method(s): TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins | Received: 23Jan2023 | Status: Active |

| Mycotoxins | Dynamic Range (ppb) | Result (ppb) | Notes |
|---------------------------------------|---------------------|--------------|-------|
| Ochratoxin A | 3.96 - 132.59 | ND | N/A |
| Aflatoxin B1 | 0.98 - 33.96 | ND | |
| Aflatoxin B2 | 1.01 - 33.66 | ND | |
| Aflatoxin G1 | 0.98 - 33.96 | ND | |
| Aflatoxin G2 | 0.92 - 34.32 | ND | |
| Total Aflatoxins (B1, B2, G1, and G2) | | ND | |

Final Approval



Sam Smith
25Jan2023
11:22:00 AM MST

PREPARED BY / DATE



Karen Winternheimer
25Jan2023
11:26:00 AM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/2ace3e67-2939-45aa-aaa8-a34207ba79d1>

Definitions

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Cert #4329.02

CDPHE Certified

2ace3e67293945aaeee8a34207ba79d1.1

Certificate of Analysis

Elixinol, LLC

10170 Church Ranch
Westminster Colorado 80021 United States

| | | | |
|----------------------------|---|--------------------------|----------------------------------|
| Sample Name: | 4000mg Natural Tincture - 230010 | Eurofins Sample: | 12568541 |
| Project ID | ELIXINOL-20230120-0002 | Receipt Date | 23-Jan-2023 |
| PO Number | PO-0027 | Receipt Condition | Ambient temperature |
| Lot Number | 230010 | Login Date | 20-Jan-2023 |
| Sample Serving Size | 1 mL | Date Started | 23-Jan-2023 |
| Description | 4000mg Natural Tincture - 230010 | Sampled | Sample results apply as received |
| | | Online Order | 901-2023-E004065 |

| Analysis | Result |
|---|------------|
| Density by Gravimetric Analysis | |
| Density | 0.955 g/mL |
| Enterobacteriaceae Plate Count * | |
| Enterobacteriaceae | <10 CFU/g |
| Glyphosate and AMPA | |
| Glyphosate | <100 ng/g |
| AMPA | <100 ng/g |

| Method References | Testing Location |
|-------------------|------------------|
|-------------------|------------------|

| | |
|---|--|
| Density by Gravimetric Analysis (SPGP_S) | Food Integrity Innovation-Madison 6304 Ronald Reagan Ave Madison, WI 53704 USA |
|---|--|

NIST Handbook 133 - Checking the Net Contents of Packaged Goods, 2015 Edition (Modified)

| | |
|--|---|
| Enterobacteriaceae Plate Count (EBPC) | EML New Berlin 2345 S 170th St New Berlin, WI 53151 USA |
|--|---|

Compendium of Methods for the Microbiological Examination of Foods: Enterobacteriaceae, Coliforms, and Escherichia coli as Quality and Safety Indicators, Chapter 8, 4th Edition, 2001.

| | |
|---|--|
| Glyphosate and AMPA (GLY_AMPA_S) | Food Integrity Innovation-Madison 6304 Ronald Reagan Ave Madison, WI 53704 USA |
|---|--|

Internally developed method.

Certificate of Analysis

Elixinol, LLC

10170 Church Ranch
Westminster Colorado 80021 United States

Testing Location(s)

Released on Behalf of Eurofins by

Food Integrity Innovation-Madison

Eurofins Food Chemistry Testing Madison, Inc.
6304 Ronald Reagan Ave
Madison WI 53704
800-675-8375

Edward Ladwig - President Eurofins Food
Chemistry Testing Madison



2918.01

These results apply only to the items tested. This certificate of analysis shall not be reproduced, except in its entirety, without the written approval of Eurofins. Measurement uncertainty for individual analyses can be obtained upon request.