

# CERTIFICATE OF ANALYSIS

Prepared for:  
**Pet Releaf**

8100 Southpark Way #A3  
Littleton, CO USA 80120

## Stress Releaf 300 mg

|   |   |                               |                      |
|---|---|-------------------------------|----------------------|
| Batch ID or Lot Number:<br><b>0722FS303</b> | Test:<br><b>Potency</b>   | Reported:<br><b>25Jul2022</b> | USDA License:<br>N/A |
| Matrix:<br>Solution                         | Test ID:<br>T000215506  | Started:<br>25Jul2022         | Sampler ID:<br>N/A   |
|   | Method(s):<br>TM14 (HPLC-DAD): Potency –<br>Standard Cannabinoid Analysis | Received:<br>25Jul2022        | Status:<br>Active    |

## Cannabinoids

|  | LOD (mg/mL) | LOQ (mg/mL) | Result (mg/mL) | Result (mg/g) | Notes              |
|--|-------------|-------------|----------------|---------------|--------------------|
| Cannabichromene (CBC)                        | 0.071       | 0.201       | 0.598          | 0.64          | Density = 0.94g/mL |
| Cannabichromenic Acid (CBCA)                 | 0.065       | 0.184       | ND             | ND            |                    |
| Cannabidiol (CBD)                            | 0.206       | 0.518       | 10.941         | 11.64         |                    |
| Cannabidiolic Acid (CBDA)                    | 0.211       | 0.531       | ND             | ND            |                    |
| Cannabidivarin (CBDV)                        | 0.049       | 0.122       | <LOQ           | 0.08          |                    |
| Cannabidivarinic Acid (CBDVA)                | 0.088       | 0.222       | ND             | ND            |                    |
| Cannabigerol (CBG)                           | 0.040       | 0.114       | 0.173          | 0.18          |                    |
| Cannabigerolic Acid (CBGA)                   | 0.169       | 0.477       | ND             | ND            |                    |
| Cannabinol (CBN)                             | 0.053       | 0.149       | ND             | ND            |                    |
| Cannabinolic Acid (CBNA)                     | 0.115       | 0.325       | ND             | ND            |                    |
| Delta 8-Tetrahydrocannabinol (Delta 8-THC)   | 0.202       | 0.568       | ND             | ND            |                    |
| Delta 9-Tetrahydrocannabinol (Delta 9-THC)   | 0.183       | 0.516       | 0.297          | 0.32          |                    |
| Delta 9-Tetrahydrocannabinolic Acid (THCA-A) | 0.162       | 0.457       | ND             | ND            |                    |
| Tetrahydrocannabivarin (THCV)                | 0.037       | 0.104       | ND             | ND            |                    |
| Tetrahydrocannabivarinic Acid (THCVA)        | 0.143       | 0.403       | ND             | ND            |                    |
| <b>Total Cannabinoids</b>                    |             |             | <b>12.081</b>  | <b>12.85</b>  |                    |
| Total Potential THC                          |             |             | 0.297          | 0.32          |                    |
| Total Potential CBD                          |             |             | 10.941         | 11.64         |                    |

Approved: Paul Gennings QA/QC 7-25-22

## Final Approval



Jacob Miller  
25Jul2022  
02:56:00 PM MDT

PREPARED BY / DATE



Sam Smith  
25Jul2022  
03:00:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/4f9835be-2e73-475d-8928-a7169aa02217>

### 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 Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC 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 Botanacor Laboratories, LLC. ISO/IEC 17025:2017 Accredited by A2LA.



Cert #4329.02

CDPHE Certified

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Prepared for:

**Pet Releaf**8100 Southpark Way #A3  
Littleton, CO USA 80120**Stress Releaf 300 mg**

|   |                                       |                        |             |
|---|---------------------------------------|------------------------|-------------|
| Batch ID or Lot Number:<br><b>0722FS303</b> | Test, Test ID and Methods:<br>Various | Matrix:<br>Solution    | Page 2 of 6 |
| Reported:<br><b>14Jul2022</b>               | Started:<br>14Jul2022                 | Received:<br>14Jul2022 |             |

**Microbial  
Contaminants -  
Colorado Compliance**

Test ID: T000214140

Methods: TM25 (qPCR) TM24, TM26,  
TM27 (Culture Plating): Microbial  
(Colorado Panel)

|                       | Method                   | LOD                     | Quantitation<br>Range                     | Result        | Notes  |
|-----------------------|--------------------------|-------------------------|---|---------------|--|
| STEC                  | TM25: PCR                | 10 <sup>0</sup> CFU/25g | NA  | Absent        | Free from visual mold, mildew, and<br>foreign matter |
| <i>Salmonella</i>     | TM25: PCR                | 10 <sup>0</sup> CFU/25g | NA  | Absent        |  |
| Total Yeast and Mold* | TM24: Culture<br>Plating | 10 <sup>1</sup> CFU/g   | 1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup> | None Detected |  |
| Total Aerobic Count*  | TM26: Culture<br>Plating | 10 <sup>2</sup> CFU/g   | 1.0x10 <sup>3</sup> - 1.5x10 <sup>5</sup> | None Detected |  |
| Total Coliforms*      | TM27: Culture<br>Plating | 10 <sup>1</sup> CFU/g   | 1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup> | None Detected |  |

**Final Approval**  
Brianne Maillot  
17Jul2022  
02:48:00 PM MDT

PREPARED BY / DATE

  
Brett Hudson  
18Jul2022  
09:48:00 AM MDT

APPROVED BY / DATE

Prepared for:  
**Pet Releaf**

8100 Southpark Way #A3  
Littleton, CO USA 80120

## Stress Releaf 300 mg

|   |                                       |                        |             |
|---|---------------------------------------|------------------------|-------------|
| Batch ID or Lot Number:<br><b>0722FS303</b> | Test, Test ID and Methods:<br>Various | Matrix:<br>Solution    | Page 3 of 6 |
| Reported:<br><b>14Jul2022</b>               | Started:<br>14Jul2022                 | Received:<br>14Jul2022 |             |


## Pesticides


Test ID: T000214139

Methods: TM17

| (LC-QQ LC MS/MS)    | Dynamic Range (ppb) | Result (ppb) |  | Dynamic Range (ppb) | Result (ppb) |    |
|---------------------|---------------------|--------------|--|---------------------|--------------|----|
| Abamectin           | 207 - 2684          | ND           |  | Malathion           | 291 - 2735   | ND |
| Acephate            | 41 - 2818           | ND           |  | Metalaxyl           | 45 - 2749    | ND |
| Acetamiprid         | 41 - 2742           | ND           |  | Methiocarb          | 41 - 2805    | ND |
| Azoxystrobin        | 43 - 2730           | ND           |  | Methomyl            | 40 - 2778    | ND |
| Bifenazate          | 42 - 2729           | ND           |  | MGK 264 1           | 174 - 1615   | ND |
| Boscalid            | 48 - 2829           | ND           |  | MGK 264 2           | 106 - 1155   | ND |
| Carbaryl            | 40 - 2740           | ND           |  | Myclobutanil        | 14 - 2811    | ND |
| Carbofuran          | 39 - 2736           | ND           |  | Naled               | 45 - 2776    | ND |
| Chlorantraniliprole | 45 - 2819           | ND           |  | Oxamyl              | 40 - 2744    | ND |
| Chlorpyrifos        | 39 - 2730           | ND           |  | Paclobutrazol       | 42 - 2733    | ND |
| Clofentezine        | 285 - 2736          | ND           |  | Permethrin          | 271 - 2736   | ND |
| Diazinon            | 284 - 2760          | ND           |  | Phosmet             | 43 - 2747    | ND |
| Dichlorvos          | 267 - 2755          | ND           |  | Prophos             | 298 - 2791   | ND |
| Dimethoate          | 40 - 2725           | ND           |  | Propoxur            | 42 - 2728    | ND |
| E-Fenpyroximate     | 286 - 2734          | ND           |  | Pyridaben           | 278 - 2696   | ND |
| Etofenprox          | 42 - 2726           | ND           |  | Spinosad A          | 34 - 2262    | ND |
| Etoxazole           | 282 - 2714          | ND           |  | Spinosad D          | 46 - 500     | ND |
| Fenoxycarb          | 42 - 2741           | ND           |  | Spiromesifen        | 243 - 2742   | ND |
| Fipronil            | 38 - 2747           | ND           |  | Spirotetramat       | 306 - 2720   | ND |
| Flonicamid          | 51 - 2693           | ND           |  | Spiroxamine 1       | 18 - 1213    | ND |
| Fludioxonil         | 304 - 2798          | ND           |  | Spiroxamine 2       | 25 - 1602    | ND |
| Hexythiazox         | 41 - 2769           | ND           |  | Tebuconazole        | 297 - 2778   | ND |
| Imazalil            | 276 - 2816          | ND           |  | Thiacloprid         | 41 - 2722    | ND |
| Imidacloprid        | 46 - 2718           | ND           |  | Thiamethoxam        | 44 - 2766    | ND |
| Kresoxim-methyl     | 46 - 2818           | ND           |  | Trifloxystrobin     | 44 - 2742    | ND |

## Final Approval

  
 Daniel Weidensaul  
 18Jul2022  
 10:22:00 AM MDT  
 PREPARED BY / DATE

  
 Sam Smith  
 18Jul2022  
 10:25:00 AM MDT  
 APPROVED BY / DATE

Prepared for:

**Pet Relief**8100 Southpark Way #A3  
Littleton, CO USA 80120**Stress Relief 300 mg**

|   |                                       |                        |             |
|---|---------------------------------------|------------------------|-------------|
| Batch ID or Lot Number:<br><b>0722FS303</b> | Test, Test ID and Methods:<br>Various | Matrix:<br>Solution    | Page 4 of 6 |
| Reported:<br><b>14Jul2022</b>               | Started:<br>14Jul2022                 | Received:<br>14Jul2022 |             |

**Heavy Metals -  
Colorado Compliance**

Test ID: T000214141

Methods: TM19 (ICP-MS): Heavy

| Metals  | Dynamic Range (ppm) | Result (ppm) | Notes |
|---------|---------------------|--------------|-------|
| Arsenic | 0.04 - 4.26         | ND           |       |
| Cadmium | 0.05 - 4.53         | ND           |       |
| Mercury | 0.04 - 4.48         | ND           |       |
| Lead    | 0.04 - 4.12         | ND           |       |

**Final Approval**Colin Hendrickson  
19Jul2022  
12:26:00 PM MDT

PREPARED BY / DATE

Daniel Weidensaul  
19Jul2022  
12:28:00 PM MDT

APPROVED BY / DATE

Prepared for:

**Pet Releaf**8100 Southpark Way #A3  
Littleton, CO USA 80120**Stress Releaf 300 mg**


|   |                                       |                        |             |
|---|---------------------------------------|------------------------|-------------|
| Batch ID or Lot Number:<br><b>0722FS303</b> | Test, Test ID and Methods:<br>Various | Matrix:<br>Solution    | Page 5 of 6 |
| Reported:<br><b>14Jul2022</b>               | Started:<br>14Jul2022                 | Received:<br>14Jul2022 |             |

**Residual Solvents -  
Colorado Compliance**

Test ID: T000214142


Methods: TM04 (GC-MS): Residual

| Solvents                      | Dynamic Range (ppm) | Result (ppm) | Notes |
|-------------------------------|---------------------|--------------|-------|
| Propane                       | 70 - 1403           | ND           |       |
| Butanes (Isobutane, n-Butane) | 147 - 2947          | ND           |       |
| Methanol                      | 63 - 1252           | ND           |       |
| Pentane                       | 88 - 1763           | ND           |       |
| Ethanol                       | 80 - 1607           | ND           |       |
| Acetone                       | 98 - 1952           | ND           |       |
| Isopropyl Alcohol             | 113 - 2252          | ND           |       |
| Hexane                        | 7 - 138             | ND           |       |
| Ethyl Acetate                 | 120 - 2403          | ND           |       |
| Benzene                       | 0.2 - 3.8           | ND           |       |
| Heptanes                      | 91 - 1826           | ND           |       |
| Toluene                       | 19 - 370            | ND           |       |
| Xylenes (m,p,o-Xylenes)       | 129 - 2579          | ND           |       |

**Final Approval**

Daniel Weidensaul  
19Jul2022  
05:26:00 PM MDT

PREPARED BY / DATE



Jacob Miller  
19Jul2022  
05:29:00 PM MDT

APPROVED BY / DATE

Prepared for:  
**Pet Relief**

8100 Southpark Way #A3  
Littleton, CO USA 80120

## Stress Relief 300 mg

|   |                                       |                        |             |
|---|---------------------------------------|------------------------|-------------|
| Batch ID or Lot Number:<br><b>0722FS303</b> | Test, Test ID and Methods:<br>Various | Matrix:<br>Solution    | Page 6 of 6 |
| Reported:<br><b>14Jul2022</b>               | Started:<br>14Jul2022                 | Received:<br>14Jul2022 |             |


## Mycotoxins - Colorado Compliance

Test ID: T000214143  
Methods: TM18 (UHPLC-QQQ)

| LCMS/MS: Mycotoxins                   | Dynamic Range (ppb) | Result (ppb) | Notes |
|---------------------------------------|---------------------|--------------|-------|
| Ochratoxin A                          | 2.45 - 118.49       | ND           | N/A   |
| Aflatoxin B1                          | 0.82 - 29.86        | ND           |       |
| Aflatoxin B2                          | 0.88 - 30.14        | ND           |       |
| Aflatoxin G1                          | 0.91 - 30.08        | ND           |       |
| Aflatoxin G2                          | 1.00 - 30.37        | ND           |       |
| Total Aflatoxins (B1, B2, G1, and G2) |                     | ND           |       |

### Final Approval

  
 Jacob Miller  
 21Jul2022  
 12:12:00 PM MDT  
 PREPARED BY / DATE

  
 Sam Smith  
 21Jul2022  
 12:15:00 PM MDT  
 APPROVED BY / DATE

Approved: Paul Gennings QA/QC 7-25-22



<https://results.botanacor.com/api/v1/coas/uuid/2888fc30-eb75-40d6-9ce3-8264d256305c>

**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<sup>2</sup> = 100 CFU, 10<sup>3</sup> = 1,000 CFU, 10<sup>4</sup> = 10,000 CFU, 10<sup>5</sup> = 100,000 CFU.

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC 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 Botanacor Laboratories, LLC. ISO/IEC 17025:2017 Accredited by A2LA. 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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