

**Report To:**

Connecticut Pharmaceutical Solutions

Attn: *Rino Ferrarese, Ryan Picard*& *Kim Provera & Nancy Poltrack*

47 Lower Main St

Portland CT 06480

Date Received: **01/31 & 02/08 2019**Date Tested: **01/31 & 02/08 2019**Laboratory Report#: **NCPS022819-01**Report Date: **02/28/2019**E-Mail: [rino.ferrarese@ctpharma.com](mailto:rino.ferrarese@ctpharma.com)[ryan.picard@ctpharma.com](mailto:ryan.picard@ctpharma.com)[kim.provo@ctpharma.com](mailto:kim.provo@ctpharma.com)[npoltrack@ctpharma.com](mailto:npoltrack@ctpharma.com)

|                             |                                                                             |                            |  |
|-----------------------------|-----------------------------------------------------------------------------|----------------------------|--|
| <u>Sample Site:</u>         | CONNECTICUT PHARMACEUTICAL SOLUTIONS<br>• 47 LOWER MAIN STREET, PORTLAND CT |                            |  |
| <u>Date Collected:</u>      | 01/31/2019 & 02/08/2019                                                     | Collected by: CA of NELabs |  |
| <u>Laboratory ID #:</u>     | <u>1976462-01 / 1976543-04</u>                                              |                            |  |
| <u>Product Description:</u> | <u>PR 0001</u><br>(derived as follows : PR0001 ← LMS060118/071318)          |                            |  |

| <u>Parameter</u>                       | <u>Result</u> | <u>Units</u> | <u>Recommended Limits *</u> |              |
|----------------------------------------|---------------|--------------|-----------------------------|--------------|
| Total Aerobic Microbial Count          | 56,000        | per gram     | PASS                        | 100,000      |
| Total Yeast & Mold Count (2/8 re-test) | 3,000         | per gram     | PASS                        | 10,000       |
| Bile Tolerant Gram Negative Bacteria   | <100          | per gram     | PASS                        | 1,000        |
| Coliform                               | <100          | per gram     | PASS                        | 1,000        |
| Enteropathogenic E.coli                | Not Detected  | per gram     | PASS                        | Not Detected |
| Salmonella species                     | Not Detected  | per gram     | PASS                        | Not Detected |

**\* RECOMMENDED LIMITS:** per American Herbal Pharmacopoeia (2013)**PASS =** Product meets Microbial and Fungal Recommended Limits  
per American Herbal Pharmacopoeia (2013)**METHODS:** USP 2021, USP 2022, FDA-BAM, AOAC 996.09**Comments:**

- Results are based on samples submitted to Northeast Laboratories, Inc. on: 01/31 & 02/08 2019

Approved By:

Alan C. Johnson, Laboratory Director

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Attn: *Rino Ferrarese, Ryan Picard*& *Kim Provera & Nancy Poltrack*

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Date Received: **01/31/2019**Date Tested: **02/04 – 02/05 2019**Laboratory Report#: **NCPS022819-01**Report Date: **02/28/2019**E-Mail: [rino.ferrarese@ctpharma.com](mailto:rino.ferrarese@ctpharma.com)[ryan.picard@ctpharma.com](mailto:ryan.picard@ctpharma.com)[kim.provo@ctpharma.com](mailto:kim.provo@ctpharma.com)[npoltrack@ctpharma.com](mailto:npoltrack@ctpharma.com)

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|-----------------------------|-----------------------------------------------------------------------------|----------------------------|--|
| <u>Sample Site:</u>         | CONNECTICUT PHARMACEUTICAL SOLUTIONS<br>• 47 LOWER MAIN STREET, PORTLAND CT |                            |  |
| <u>Date Collected:</u>      | 01/31/2019 14:30                                                            | Collected by: CA of NELabs |  |
| <u>Laboratory ID #:</u>     | <u>1976462-01</u>                                                           |                            |  |
| <u>Product Description:</u> | <u>PR 0001</u><br>(derived as follows : PR0001 ← LMS060118/071318)          |                            |  |

| <b>HEAVY METALS:</b> |               |              |      |               |
|----------------------|---------------|--------------|------|---------------|
| <b>Parameter</b>     | <b>Result</b> | <b>Units</b> |      | <b>Limits</b> |
| Arsenic, Total       | <0.0005       | µg/kg BW/day | PASS | <0.14         |
| Cadmium, Total       | <0.002        | µg/kg BW/day | PASS | <0.09         |
| Lead, Total          | <0.002        | µg/kg BW/day | PASS | <0.29         |
| Mercury, Total       | <0.005        | µg/kg BW/day | PASS | <0.29         |

**Daily Dose:** 1 gram**Body Weight:** 50 kilograms**METHODS:** USP <232> and <233> (Modified)

AOAC 986.15, 935.50, 971.21

FCC 7, Appendix 3

**LIMITS:** per American Herbal Pharmacopoeia (2013)**PASS** = Product meets Heavy Metals Recommended Limits

per American Herbal Pharmacopoeia (2013)

**Comments:**

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 01/31/2019

Approved By:

Alan C. Johnson, Laboratory Director

Northeast Laboratories, Inc. 129 Mill Street Berlin, CT 06037 [www.nelabsct.com](http://www.nelabsct.com)

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CT Cert. #PH-0404 EPA Cert. #CT-024 USDA Cert. #0976 FDA Reg. #086650488 DEA Reg.: Federal #RN0281852 + CT #624

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Portland CT 06480

Date Received: **02/08/2019**Date Tested: **02/12/2019**Laboratory Report#: **NCP022819-01**Report Date: **02/28/2019**

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|                             |                                                                    |       |                            |
|-----------------------------|--------------------------------------------------------------------|-------|----------------------------|
| <u>Sample Site:</u>         | CONNECTICUT PHARMACEUTICAL SOLUTIONS                               |       |                            |
|                             | • 47 LOWER MAIN STREET, PORTLAND CT                                |       |                            |
| <u>Date Collected:</u>      | 02/08/2019                                                         | 12:30 | Collected by: CA of NELabs |
| <u>Laboratory ID #:</u>     | <u>1976543-07</u>                                                  |       |                            |
| <u>Product Description:</u> | <u>PR 0001</u><br>(derived as follows : PR0001 ← LMS060118/071318) |       |                            |

| <b>EXPANDED TERPENES</b><br><b>(% Dry Weight)</b> | <b>Result</b> | <b>Units</b> |
|---------------------------------------------------|---------------|--------------|
| a-pinene                                          | 0.04          | %            |
| camphene                                          | ---           | %            |
| sabinene                                          | ---           | %            |
| b-pinene                                          | 0.04          | %            |
| b-myrcene                                         | 0.03          | %            |
| a-phellandrene                                    | ---           | %            |
| 3-carene                                          | ---           | %            |
| a-terpinene                                       | ---           | %            |
| limonene                                          | ---           | %            |
| eucalyptol                                        | ---           | %            |
| ocimene                                           | ---           | %            |
| b-terpinene                                       | ---           | %            |
| terpineol                                         | ---           | %            |
| terpinolene                                       | ---           | %            |
| linalool                                          | 0.23          | %            |
| (+)-fenchone                                      | ---           | %            |
| L(-)-fenchone                                     | ---           | %            |
| fenchol                                           | ---           | %            |
| (-)-isopulegol                                    | ---           | %            |
| camphor                                           | ---           | %            |
| isoborneol                                        | ---           | %            |
| (-)-borneol                                       | ---           | %            |

**METHODS:** GC, GC/MS**Comments:**

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 02/08/2019

Approved By:

Alan C. Johnson, Laboratory Director

Northeast Laboratories, Inc. 129 Mill Street Berlin, CT 06037 [www.nelabsct.com](http://www.nelabsct.com)

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CT Cert. #PH-0404 EPA Cert. #CT-024 USDA Cert. #0976 FDA Reg. #086650488 DEA Reg.: Federal #RN0281852 + CT #624

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| <u>Date Collected:</u>      | 01/31/2019 14:30                                                            | Collected by: CA of NELabs |  |
| <u>Laboratory ID #:</u>     | <u>1976543-07</u>                                                           |                            |  |
| <u>Product Description:</u> | <u>PR 0001</u><br>(derived as follows : PR0001 ← LMS060118/071318)          |                            |  |

| <b>EXPANDED TERPENES</b><br><b>(% Dry Weight)</b> | <b>Result</b> | <b>Units</b> |
|---------------------------------------------------|---------------|--------------|
| menthol                                           | ---           | %            |
| geraniol                                          | ---           | %            |
| nerol                                             | ---           | %            |
| (+)-pulegol                                       | ---           | %            |
| trans-b-farnesene                                 | ---           | %            |
| geranyl acetate                                   | ---           | %            |
| a-cedrene                                         | ---           | %            |
| b-caryophyllene                                   | 1.70          | %            |
| b-farnesene                                       | ---           | %            |
| humulene                                          | 0.75          | %            |
| a-farnesene                                       | ---           | %            |
| valencene                                         | ---           | %            |
| cis-nerolidol                                     | ---           | %            |
| trans-nerolidol                                   | ---           | %            |
| guaiol                                            | 0.21          | %            |
| caryophyllene oxide                               | ---           | %            |
| cedrol                                            | ---           | %            |
| b-eudesmol                                        | ---           | %            |
| a-bisabolol                                       | ---           | %            |

**METHODS:** GC, GC/MS**Comments:**

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 02/08/2019

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Alan C. Johnson, Laboratory Director

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| <u>Sample Site:</u>         | CONNECTICUT PHARMACEUTICAL SOLUTIONS<br>• 47 LOWER MAIN STREET, PORTLAND CT |                            |  |
| <u>Date Collected:</u>      | 01/31/2019 14:30                                                            | Collected by: CA of NELabs |  |
| <u>Laboratory ID #:</u>     | <u>1976462-01</u>                                                           |                            |  |
| <u>Product Description:</u> | <u>PR 0001</u><br>(derived as follows : PR0001 ← LMS060118/071318)          |                            |  |

| <b>PESTICIDES LC (MS/MS)</b> |               |              |      |               |
|------------------------------|---------------|--------------|------|---------------|
| <b>Parameter</b>             | <b>Result</b> | <b>Units</b> |      | <b>Limits</b> |
| Abamectin                    | <0.01         | mg/kg        | PASS | 15            |
| Acequinocyl                  | <0.01         | mg/kg        | PASS | 14            |
| Azadiractin                  | <0.01         | mg/kg        | PASS | 60            |
| Bifenazate                   | <0.01         | mg/kg        | PASS | 6             |
| Bifenthrin                   | <0.01         | mg/kg        | PASS | 12            |
| Chlormequat Chloride         | <0.01         | mg/kg        | PASS | 30            |
| Cyfluthrin                   | <0.01         | mg/kg        | PASS | 12            |
| Daminozide                   | <0.01         | mg/kg        | PASS | 270           |
| Etoxazole                    | <0.01         | mg/kg        | PASS | 24            |
| Fenoxycarb                   | <0.01         | mg/kg        | PASS | 32            |
| Imazalil                     | <0.01         | mg/kg        | PASS | 6             |
| Imidacloprid                 | <0.01         | mg/kg        | PASS | 36            |
| Myclobutanil                 | <0.01         | mg/kg        | PASS | 18            |
| Paclobutrazol                | <0.01         | mg/kg        | PASS | 13            |
| Pyrethrum                    | <0.01         | mg/kg        | PASS | 3             |
| Spinosad                     | <0.01         | mg/kg        | PASS | 12            |
| Spiromesifen                 | <0.01         | mg/kg        | PASS | 15            |
| Spirotetramat                | <0.01         | mg/kg        | PASS | 30            |
| Trifloxystrobin              | <0.01         | mg/kg        | PASS | 60            |

LOQ = 1.0 µg/kg LOD = 0.1 µg/kg

**METHODS:** LC – MS/MS (Restek Method)**LIMITS:** per FAO - WHO**Comments:**

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 01/31/2019

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| <u>Sample Site:</u>         | CONNECTICUT PHARMACEUTICAL SOLUTIONS<br>• 47 LOWER MAIN STREET, PORTLAND CT |                            |  |
| <u>Date Collected:</u>      | 01/31/2019 14:30                                                            | Collected by: CA of NELabs |  |
| <u>Laboratory ID #:</u>     | <u>1976462-01</u>                                                           |                            |  |
| <u>Product Description:</u> | <u>PR 0001</u><br>(derived as follows : PR0001 ← LMS060118/071318)          |                            |  |

| <b>MYCOTOXINS</b>               |               |              |               |
|---------------------------------|---------------|--------------|---------------|
| <b>Parameter</b>                | <b>Result</b> | <b>Units</b> | <b>Limits</b> |
| <i>Method: USP 561-II</i>       |               |              |               |
| Aflatoxin B1                    | <5            | µg/kg        | PASS 5        |
| Aflatoxin B2                    | <5            | µg/kg        | PASS 5        |
| Aflatoxin G1                    | <5            | µg/kg        | PASS 5        |
| Aflatoxin G2                    | <5            | µg/kg        | PASS 5        |
| <i>Method: USP 561-II (Mod)</i> |               |              |               |
| Ochratoxin-A                    | <5            | µg/kg        | PASS 5        |

**METHODS:** USP <561>

Articles of Botanical Origin: Aflatoxins Method 2 (modified for Ochratoxin)

**LIMITS:** per American Herbal Pharmacopoeia (2013)**Comments:**

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 01/31/2019

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| <u>Sample Site:</u>         | CONNECTICUT PHARMACEUTICAL SOLUTIONS<br>• 47 LOWER MAIN STREET, PORTLAND CT |                            |  |
| <u>Date Collected:</u>      | 02/19/2019 14:00                                                            | Collected by: CA of NELabs |  |
| <u>Laboratory ID #:</u>     | <u>1976636-13</u>                                                           |                            |  |
| <u>Product Description:</u> | <u>PR 0001</u><br>(derived as follows : PR0001 ← LMS060118/071318)          |                            |  |

| <u>CANNABINOIDS (% weight)</u> | <u>Result</u> | <u>Units</u> |
|--------------------------------|---------------|--------------|
| CBDV                           | ----          | % weight     |
| CBDA                           | ----          | % weight     |
| CBGA                           | 0.82          | % weight     |
| CBG                            | ----          | % weight     |
| CBD                            | ----          | % weight     |
| THCV                           | ----          | % weight     |
| CBN                            | ----          | % weight     |
| d9-THC                         | 1.93          | % weight     |
| d8-THC                         | ----          | % weight     |
| CBL                            | ----          | % weight     |
| CBC                            | ----          | % weight     |
| THCA                           | 38.56         | % weight     |

**METHODS:** HPLC**Comments:**

- Results are based on an average of 3 samples submitted to Northeast Laboratories, Inc. on: 02/19/2019

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