

**Report To:**

Connecticut Pharmaceutical Solutions

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

47 Lower Main St

Portland CT 06480

Date Received: **10/12/2018**Date Tested: **10/15/2018**Laboratory Report#: **NCPS110518-01**Report Date: **11/05/2018**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>      | 10/12/2018 14:50                                                            | Collected by: CA of NELabs |  |
| <u>Laboratory ID #:</u>     | <u>1875398-07</u><br><u>TN 0054</u>                                         |                            |  |
| <u>Product Description:</u> | (derived as follows : TN0054 ← FTR070318<br>TN0050 ← ID0046← C0181)         |                            |  |

| <b>Parameter</b>                     | <b>Result</b> | <b>Units</b> | <b>Recommended Limits *</b> |              |
|--------------------------------------|---------------|--------------|-----------------------------|--------------|
| Total Aerobic Microbial Count        | <100          | per gram     | PASS                        | 100,000      |
| Total Yeast & Mold Count             | <100          | 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 sample/s submitted to Northeast Laboratories, Inc. on: 10/12/2018

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

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Date Received: **09/19/2018**Date Tested: **09/26 – 09/28 2018**Laboratory Report#: **NCPS110518-01**Report Date: **11/05/2018**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>      | 09/19/2018 14:30 Collected by: CA of NELabs                                 |
| <u>Laboratory ID #:</u>     | <u>1875165 – 10</u><br><u>TN 0054</u>                                       |
| <u>Product Description:</u> | (derived as follows : TN0054 ← FTR070318<br>TN0050 ← ID0046← C0181)         |

| <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: 09/19/2018

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**Report To:**

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Date Received: **07/03/2018**Date Tested: **07/13/2018**Laboratory Report#: **NCPS110518-01**Report Date: **11/05/2018**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>      | 07/03/2018 10:55                                                            | Collected by: CA of NELabs |  |
| <u>Laboratory ID #:</u>     | <u>1874346 – 02</u><br><u>TN 0054</u>                                       |                            |  |
| <u>Product Description:</u> | (derived as follows : TN0054 ← FTR070318<br>TN0050 ← ID0046← C0181)         |                            |  |

| <b>HEAVY METALS:</b> |               |              |               |
|----------------------|---------------|--------------|---------------|
| <b>Parameter</b>     | <b>Result</b> | <b>Units</b> | <b>Limits</b> |
| Arsenic, Total       | PASS          | µg/kg BW/day | <4.206        |
| Cadmium, Total       | PASS          | µg/kg BW/day | <2.704        |
| Lead, Total          | PASS          | µg/kg BW/day | <8.712        |
| Mercury, Total       | PASS          | µg/kg BW/day | <8.712        |

**Daily Dose:** 1 gram**Body Weight:** 50 kilograms**METHODS:** AltaSci Heavy Metals**Comments:**

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 07/03/2018
- Heavy Metals tested by AltaSci Labs, 1 Hartford Square, New Britain CT.

Approved By:

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|                             | • 47 LOWER MAIN STREET, PORTLAND CT      |                            |  |
| <u>Date Collected:</u>      | 10/12/2018 14:50                         | Collected by: CA of NELabs |  |
| <u>Laboratory ID #:</u>     | <u>1875398-07</u>                        |                            |  |
|                             | <u>TN 0054</u>                           |                            |  |
| <u>Product Description:</u> | (derived as follows : TN0054 ← FTR070318 |                            |  |
|                             | TN0050 ← ID0046← C0181)                  |                            |  |

| <b>EXPANDED TERPENES</b><br><b>(% Dry Weight)</b> | <b>Result</b> | <b>Units</b> |
|---------------------------------------------------|---------------|--------------|
| a-pinene                                          | 0.09          | %            |
| camphene                                          | ---           | %            |
| sabinene                                          | ---           | %            |
| b-pinene                                          | 0.27          | %            |
| b-myrcene                                         | 0.38          | %            |
| a-phellandrene                                    | ---           | %            |
| 3-carene                                          | ---           | %            |
| a-terpinene                                       | ---           | %            |
| limonene                                          | 0.67          | %            |
| eucalyptol                                        | ---           | %            |
| ocimene                                           | ---           | %            |
| b-terpinene                                       | ---           | %            |
| terpineol                                         | ---           | %            |
| terpinolene                                       | ---           | %            |
| linalool                                          | 0.11          | %            |
| (+)-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: 10/12/2018

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| <u>Laboratory ID #:</u>     | <u>1875398-07</u><br><u>TN 0054</u>                                         |                            |  |
| <u>Product Description:</u> | (derived as follows : TN0054 ← FTR070318<br>TN0050 ← ID0046← C0181)         |                            |  |

| <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                                   | 0.50          | %            |
| b-farnesene                                       | ---           | %            |
| humulene                                          | 0.29          | %            |
| a-farnesene                                       | ---           | %            |
| valencene                                         | ---           | %            |
| cis-nerolidol                                     | ---           | %            |
| trans-nerolidol                                   | ---           | %            |
| guaiol                                            | ---           | %            |
| caryophyllene oxide                               | ---           | %            |
| cedrol                                            | ---           | %            |
| b-eudesmol                                        | ---           | %            |
| a-bisabolol                                       | ---           | %            |

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

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 10/12/2018

  
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| <u>Sample Site:</u>         | CONNECTICUT PHARMACEUTICAL SOLUTIONS     |                            |  |
|                             | • 47 LOWER MAIN STREET, PORTLAND CT      |                            |  |
| <u>Date Collected:</u>      | 09/19/2018 14:30                         | Collected by: CA of NELabs |  |
| <u>Laboratory ID #:</u>     | <u>1875165 – 10</u>                      |                            |  |
|                             | <u>TN 0054</u>                           |                            |  |
| <u>Product Description:</u> | (derived as follows : TN0054 ← FTR070318 |                            |  |
|                             | TN0050 ← ID0046← C0181)                  |                            |  |

| <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           |
| Etoazole                     | <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: 09/19/2018

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| <u>Laboratory ID #:</u>     | <u>1874346 – 02</u>                      |                            |  |
|                             | <u>TN 0054</u>                           |                            |  |
| <u>Product Description:</u> | (derived as follows : TN0054 ← FTR070318 |                            |  |
|                             | TN0050 ← ID0046← C0181)                  |                            |  |

| <b>PESTICIDES</b> |               |
|-------------------|---------------|
| <b>Parameter</b>  | <b>Result</b> |
| Pesticides        | PASS          |

**METHODS:** AltaSci Pesticides**Comments:**

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 07/03/2018
- Pesticides tested by AltaSci Labs, 1 Hartford Square, New Britain CT.

*Alan C. Johnson*  
Approved By: **Alan C. Johnson, Laboratory Director**

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| <u>Laboratory ID #:</u>     | <u>1875165 – 10</u><br><u>TN 0054</u>                                       |                            |  |
| <u>Product Description:</u> | (derived as follows : TN0054 ← FTR070318<br>TN0050 ← ID0046← C0181)         |                            |  |

| <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:**

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| <b>MYCOTOXINS</b> |               |              |               |
|-------------------|---------------|--------------|---------------|
| <b>Parameter</b>  | <b>Result</b> | <b>Units</b> | <b>Limits</b> |
| Aflatoxin B1      | PASS          | µg/kg        | 20            |
| Aflatoxin B2      | PASS          | µg/kg        | 20            |
| Aflatoxin G1      | PASS          | µg/kg        | 20            |
| Aflatoxin G2      | PASS          | µg/kg        | 20            |
| Ochratoxin-A      | PASS          | µg/kg        | 20            |

**METHODS:** AltaSci Mycotoxins**Comments:**

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 07/03/2018
- Mycotoxins tested by AltaSci Labs, 1 Hartford Square, New Britain CT.

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|                             |                                          |                            |  |
|-----------------------------|------------------------------------------|----------------------------|--|
| <u>Sample Site:</u>         | CONNECTICUT PHARMACEUTICAL SOLUTIONS     |                            |  |
|                             | • 47 LOWER MAIN STREET, PORTLAND CT      |                            |  |
| <u>Date Collected:</u>      | 10/12/2018 14:50                         | Collected by: CA of NELabs |  |
| <u>Laboratory ID #:</u>     | <u>1875398-07</u>                        |                            |  |
|                             | <u>TN 0054</u>                           |                            |  |
| <u>Product Description:</u> | (derived as follows : TN0054 ← FTR070318 |                            |  |
|                             | TN0050 ← ID0046← C0181)                  |                            |  |

| <u>CANNABINOIDS (% weight)</u> | <u>Result</u> | <u>Units</u> |
|--------------------------------|---------------|--------------|
| CBDV                           | ----          | % weight     |
| CBDA                           | ----          | % weight     |
| CBGA                           | ----          | % weight     |
| CBG                            | ----          | % weight     |
| CBD                            | 5.79          | % weight     |
| THCV                           | ----          | % weight     |
| CBN                            | ----          | % weight     |
| d9-THC                         | 2.54          | % weight     |
| d8-THC                         | ----          | % weight     |
| CBL                            | ----          | % weight     |
| CBC                            | ----          | % weight     |
| THCA                           | ----          | % weight     |

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

- Results are based on an average of 3 samples submitted to Northeast Laboratories, Inc. on: 10/12/2018

  
Approved By: **Alan C. Johnson, Laboratory Director**

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