

**Report To:**

Connecticut Pharmaceutical Solutions  
Attn: *Rino Ferrarese, Mark June-Wells*  
*& Kim Provera & Nancy Poltrack*  
47 Lower Main St  
Portland CT 06480

Date Received: 4/01/2016

Date Tested: 4/01/2016  
Laboratory Report#: **NCPS061617-02**

Report Date: 6/17/2016

E-Mail: [rino.ferrarese@ctpharma.com](mailto:rino.ferrarese@ctpharma.com)  
[mark.june.wells@ctpharma.com](mailto:mark.june.wells@ctpharma.com)  
[kim.provera@ctpharma.com](mailto:kim.provera@ctpharma.com)  
[npoltrack@gmail.com](mailto:npoltrack@gmail.com)

|                             |                                                                             |                            |  |
|-----------------------------|-----------------------------------------------------------------------------|----------------------------|--|
| <u>Sample Site:</u>         | CONNECTICUT PHARMACEUTICAL SOLUTIONS<br>• 47 LOWER MAIN STREET, PORTLAND CT |                            |  |
| <u>Date Collected:</u>      | 4/01/2016 11:30                                                             | Collected by: CA of NELabs |  |
| <u>Laboratory ID #:</u>     | <u>1665606 – 02</u>                                                         |                            |  |
| <u>Product Description:</u> | <u>OC 0043</u><br>(derived as follows : OC0043← C0077 ← CTS122815)          |                            |  |

| <u>Parameter</u>                     | <u>Result</u> | <u>Units</u> |      | <u>Recommended Limits *</u> |
|--------------------------------------|---------------|--------------|------|-----------------------------|
| Total Aerobic Microbial Count        | 200           | 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: 4/01/2016

Approved By:

Alan C. Johnson, Laboratory Director

Northeast Laboratories, Inc. 129 Mill Street Berlin, CT 06037 [www.nelabsct.com](http://www.nelabsct.com)Telephone: 860-828-9787 Toll Free (In State) 800-826-0105 (Out of State) 800-654-1230 Fax: 860-829-1050  
CT Cert. #PH-0404 EPA Cert. #CT-024 USDA Cert. #0976 FDA Reg. #086650488 DEA Reg.: Federal #RN0281852 + CT #624

**Report To:**

Connecticut Pharmaceutical Solutions  
Attn: Rino Ferrarese, Mark June-Wells  
& Kim Provera & Nancy Poltrack  
47 Lower Main St  
Portland CT 06480

Date Received: 4/01/2016

Date Tested: 4/01/2016  
Laboratory Report#: NCPS061617-02

Report Date: 6/17/2016

E-Mail: rino.ferrarese@ctpharma.com  
mark.june.wells@ctpharma.com  
kim.provera@ctpharma.com  
npoltrack@gmail.com

|                             |                                                                    |                            |  |
|-----------------------------|--------------------------------------------------------------------|----------------------------|--|
| <u>Sample Site:</u>         | CONNECTICUT PHARMACEUTICAL SOLUTIONS                               |                            |  |
|                             | • 47 LOWER MAIN STREET, PORTLAND CT                                |                            |  |
| <u>Date Collected:</u>      | 4/01/2016 11:30                                                    | Collected by: CA of NELabs |  |
| <u>Laboratory ID #:</u>     | <u>1665606 – 02</u>                                                |                            |  |
| <u>Product Description:</u> | <u>OC 0043</u><br>(derived as follows : OC0043← C0077 ← CTS122815) |                            |  |

| <u>Parameter</u>                     | <u>Result</u> | <u>Units</u> | <u>Recommended Limits *</u> |              |
|--------------------------------------|---------------|--------------|-----------------------------|--------------|
| Total Aerobic Microbial Count        | 200           | 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: 4/01/2016

Approved By:

Alan C. Johnson, Laboratory Director

**Report To:**

Connecticut Pharmaceutical Solutions  
Attn: *Rino Ferrarese, Mark June-Wells*  
& *Kim Provera & Nancy Poltrack*  
47 Lower Main St  
Portland CT 06480

Date Received: 4/01/2016

Date Tested: 4/07 – 4/08/2016  
Laboratory Report#: **NCPS061617-02**

Report Date: 6/17/2016

E-Mail: [rino.ferrarese@ctpharma.com](mailto:rino.ferrarese@ctpharma.com)  
[mark.june.wells@ctpharma.com](mailto:mark.june.wells@ctpharma.com)  
[kim.provera@ctpharma.com](mailto:kim.provera@ctpharma.com)  
[npoltrack@gmail.com](mailto:npoltrack@gmail.com)

|                             |                                                                             |                            |  |
|-----------------------------|-----------------------------------------------------------------------------|----------------------------|--|
| <u>Sample Site:</u>         | CONNECTICUT PHARMACEUTICAL SOLUTIONS<br>• 47 LOWER MAIN STREET, PORTLAND CT |                            |  |
| <u>Date Collected:</u>      | 4/01/2016 11:30                                                             | Collected by: CA of NELabs |  |
| <u>Laboratory ID #:</u>     | <u>1665606 – 02</u>                                                         |                            |  |
| <u>Product Description:</u> | <u>OC 0043</u><br>(derived as follows : OC0043← C0077 ← CTS122815)          |                            |  |

| <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: 4/01/2016

  
Approved By: Alan C. Johnson, Laboratory Director



**Report To:**

Connecticut Pharmaceutical Solutions  
Attn: Rino Ferrarese, Mark June-Wells  
& Kim Provera & Nancy Poltrack

47 Lower Main St  
Portland CT 06480

Date Received: 6/10/2016

Date Tested: 6/15-6/16 2016  
Laboratory Report#: NCPS061617-02

Report Date: 6/17/2016

E-Mail: rino.ferrarese@ctpharma.com  
mark.june.wells@ctpharma.com  
kim.provera@ctpharma.com  
npoltrack@gmail.com

|                             |                                                                             |                            |  |
|-----------------------------|-----------------------------------------------------------------------------|----------------------------|--|
| <u>Sample Site:</u>         | CONNECTICUT PHARMACEUTICAL SOLUTIONS<br>• 47 LOWER MAIN STREET, PORTLAND CT |                            |  |
| <u>Date Collected:</u>      | 6/10/2016 11:00                                                             | Collected by: CA of NELabs |  |
| <u>Laboratory ID #:</u>     | <u>1666287-01</u>                                                           |                            |  |
| <u>Product Description:</u> | <u>OC 0043</u><br>(derived as follows : OC0043← C0077 ← CTS122815)          |                            |  |

| <u>EXPANDED TERPENES</u><br><u>(% Dry Weight)</u> | <u>Result</u> | <u>Units</u> |
|---------------------------------------------------|---------------|--------------|
| a-pinene                                          | ---           | %            |
| camphene                                          | ---           | %            |
| sabinene                                          | ---           | %            |
| b-pinene                                          | ---           | %            |
| b-myrcene                                         | ---           | %            |
| a-phellandrene                                    | ---           | %            |
| 3-carene                                          | ---           | %            |
| a-terpinene                                       | ---           | %            |
| limonene                                          | ---           | %            |
| eucalyptol                                        | ---           | %            |
| ocimene                                           | ---           | %            |
| b-terpinene                                       | ---           | %            |
| Terpineol                                         | ---           | %            |
| terpinolene                                       | ---           | %            |
| linalool                                          | ---           | %            |
| (+)-fenchone                                      | ---           | %            |
| L(-)-fenchone                                     | ---           | %            |
| fenchol                                           | ---           | %            |
| (-)-isopulegol                                    | ---           | %            |
| camphor                                           | ---           | %            |
| isoborneol                                        | ---           | %            |
| (-)-borneol                                       | 0.10          | %            |

**METHODS:** GC, GC/MS

**Comments:**

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 6/10/2016

Approved By:

Alan C. Johnson, Laboratory Director

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

Telephone: 860-828-9787 Toll Free (In State) 800-826-0105 (Out of State) 800-654-1230 Fax: 860-829-1050  
CT Cert. #PH-0404 EPA Cert. #CT-024 USDA Cert. #0976 FDA Reg. #086650488 DEA Reg.: Federal #RN0281852 + CT #624

**Report To:**

Connecticut Pharmaceutical Solutions  
Attn: Rino Ferrarese, Mark June-Wells  
& Kim Provera & Nancy Poltrack

47 Lower Main St  
Portland CT 06480

Date Received: 6/10/2016

Date Tested: 6/15-6/16 2016  
Laboratory Report#: NCP061617-02

Report Date: 6/17/2016

E-Mail: rino.ferrarese@ctpharma.com  
mark.june.wells@ctpharma.com  
kim.provera@ctpharma.com  
npoltrack@gmail.com

|                             |                                                                             |                            |  |
|-----------------------------|-----------------------------------------------------------------------------|----------------------------|--|
| <u>Sample Site:</u>         | CONNECTICUT PHARMACEUTICAL SOLUTIONS<br>• 47 LOWER MAIN STREET, PORTLAND CT |                            |  |
| <u>Date Collected:</u>      | 6/10/2016 11:00                                                             | Collected by: CA of NELabs |  |
| <u>Laboratory ID #:</u>     | <u>1666287-01</u>                                                           |                            |  |
| <u>Product Description:</u> | <u>OC 0043</u><br>(derived as follows : OC0043← C0077 ← CTS122815)          |                            |  |

| <u>EXPANDED TERPENES</u><br><u>(% Dry Weight)</u> | <u>Result</u> | <u>Units</u> |
|---------------------------------------------------|---------------|--------------|
| nenthol                                           | ---           | %            |
| geraniol                                          | ---           | %            |
| nerol                                             | ---           | %            |
| (+)-pulegol                                       | ---           | %            |
| trans-b-farnesene                                 | 1.90          | %            |
| geranyl acetate                                   | ---           | %            |
| a-cedrene                                         | ---           | %            |
| b-caryophyllene                                   | 1.69          | %            |
| b-farnesene                                       | ---           | %            |
| humulene                                          | 0.92          | %            |
| a-farnesene                                       | ---           | %            |
| valencene                                         | ---           | %            |
| cis-nerolidol                                     | ---           | %            |
| trans-nerolidol                                   | 6.38          | %            |
| guaial                                            | ---           | %            |
| caryophyllene oxide                               | ---           | %            |
| cedrol                                            | ---           | %            |
| b-eudesmol                                        | ---           | %            |
| a-bisabolol                                       | ---           | %            |

|                  | <u>Result</u> | <u>Units</u>      |
|------------------|---------------|-------------------|
| Density          | 1.0042        | g/cm <sup>3</sup> |
| Residual Alcohol | 0.23          | %                 |

**METHODS:** GC, GC/MS

**Comments:**

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 6/10/2016

Approved By:

Alan C. Johnson, Laboratory Director

**Report To:**

Connecticut Pharmaceutical Solutions  
Attn: Rino Ferrarese, Mark June-Wells  
& Kim Provera & Nancy Poltrack  
47 Lower Main St  
Portland CT 06480

Date Received: 4/01/2016

Date Tested: 4/05/2016  
Laboratory Report#: NCPS061617-02

Report Date: 6/17/2016

E-Mail: rino.ferrarese@ctpharma.com  
mark.june.wells@ctpharma.com  
kim.provera@ctpharma.com  
npoltrack@gmail.com

|                             |                                                                             |                            |  |
|-----------------------------|-----------------------------------------------------------------------------|----------------------------|--|
| <u>Sample Site:</u>         | CONNECTICUT PHARMACEUTICAL SOLUTIONS<br>• 47 LOWER MAIN STREET, PORTLAND CT |                            |  |
| <u>Date Collected:</u>      | 4/01/2016 11:30                                                             | Collected by: CA of NELabs |  |
| <u>Laboratory ID #:</u>     | <u>1665606 – 02</u>                                                         |                            |  |
| <u>Product Description:</u> | <u>OC 0043</u><br>(derived as follows : OC0043← C0077 ← CTS122815)          |                            |  |

| PESTICIDES LC (MS/MS) |        |       |      |        |
|-----------------------|--------|-------|------|--------|
| Parameter             | Result | Units |      | Limits |
| 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: 4/01/2016

Approved By:

Alan C. Johnson, Laboratory Director

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

Telephone: 860-828-9787 Toll Free (In State) 800-826-0105 (Out of State) 800-654-1230 Fax: 860-829-1050  
CT Cert. #PH-0404 EPA Cert. #CT-024 USDA Cert. #0976 FDA Reg. #086650488 DEA Reg.: Federal #RN0281852 + CT #624

**Report To:**

Connecticut Pharmaceutical Solutions  
Attn: *Rino Ferrarese, Mark June-Wells*  
& *Kim Provera & Nancy Poltrack*  
47 Lower Main St  
Portland CT 06480

Date Received: 4/01/2016

Date Tested: 4/05/2016  
Laboratory Report#: **NCP061617-02**

Report Date: 6/17/2016

E-Mail: [rino.ferrarese@ctpharma.com](mailto:rino.ferrarese@ctpharma.com)  
[mark.june.wells@ctpharma.com](mailto:mark.june.wells@ctpharma.com)  
[kim.provera@ctpharma.com](mailto:kim.provera@ctpharma.com)  
[npoltrack@gmail.com](mailto:npoltrack@gmail.com)

|                             |                                                                             |                            |  |
|-----------------------------|-----------------------------------------------------------------------------|----------------------------|--|
| <u>Sample Site:</u>         | CONNECTICUT PHARMACEUTICAL SOLUTIONS<br>• 47 LOWER MAIN STREET, PORTLAND CT |                            |  |
| <u>Date Collected:</u>      | 4/01/2016 11:30                                                             | Collected by: CA of NELabs |  |
| <u>Laboratory ID #:</u>     | <u>1665606 – 02</u>                                                         |                            |  |
| <u>Product Description:</u> | <u>OC 0043</u><br>(derived as follows : OC0043← C0077 ← CTS122815)          |                            |  |

| <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: 4/01/2016

Approved By:

Alan C. Johnson, Laboratory Director

Northeast Laboratories, Inc. 129 Mill Street Berlin, CT 06037 [www.nelabsct.com](http://www.nelabsct.com)Telephone: 860-828-9787 Toll Free (In State) 800-826-0105 (Out of State) 800-654-1230 Fax: 860-829-1050  
CT Cert. #PH-0404 EPA Cert. #CT-024 USDA Cert. #0976 FDA Reg. #086650488 DEA Reg.: Federal #RN0281852 + CT #624



**Report To:**

Connecticut Pharmaceutical Solutions  
*Attn: Rino Ferrarese, Mark June-Wells*  
*& Kim Provera & Nancy Poltrack*  
47 Lower Main St  
Portland CT 06480

Date Received: 6/10/2016

Date Tested: 6/13/2016  
Laboratory Report#: **NCPS061617-02**

Report Date: 6/17/2016

E-Mail: [rino.ferrarese@ctpharma.com](mailto:rino.ferrarese@ctpharma.com)  
[mark.june.wells@ctpharma.com](mailto:mark.june.wells@ctpharma.com)  
[kim.provera@ctpharma.com](mailto:kim.provera@ctpharma.com)  
[npoltrack@gmail.com](mailto:npoltrack@gmail.com)

|                             |                                                                    |                            |  |
|-----------------------------|--------------------------------------------------------------------|----------------------------|--|
| <u>Sample Site:</u>         | CONNECTICUT PHARMACEUTICAL SOLUTIONS                               |                            |  |
|                             | • 47 LOWER MAIN STREET, PORTLAND CT                                |                            |  |
| <u>Date Collected:</u>      | 6/10/2016 11:00                                                    | Collected by: CA of NELabs |  |
| <u>Laboratory ID #:</u>     | <u>1666287-01</u>                                                  |                            |  |
| <u>Product Description:</u> | <u>OC 0043</u><br>(derived as follows : OC0043← C0077 ← CTS122815) |                            |  |

| <u>CANNABINOIDS (% weight)</u> | <u>Result</u> | <u>Units</u> |
|--------------------------------|---------------|--------------|
| CBDV                           | ----          | % weight     |
| CBDA                           | 42.72         | % weight     |
| CBGA                           | 1.20          | % weight     |
| CBG                            | 0.94          | % weight     |
| CBD                            | 5.50          | % weight     |
| THCV                           | ----          | % weight     |
| CBN                            | ----          | % weight     |
| THC                            | 12.22         | % weight     |
| CBC                            | 0.73          | % weight     |
| THCA                           | 15.99         | % weight     |

**METHODS:** HPLCComments:

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 6/10/2016

Approved By:

Alan C. Johnson, Laboratory Director