

**Report To:**

Connecticut Pharmaceutical Solutions

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

47 Lower Main St

Portland CT 06480

Date Received: 12/17/2018

Date Tested: 12/18/2018

Laboratory Report#: **NCPS122618-02**

Report Date: 12/26/2018

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|                             |                                                                             |                            |  |
|-----------------------------|-----------------------------------------------------------------------------|----------------------------|--|
| <u>Sample Site:</u>         | CONNECTICUT PHARMACEUTICAL SOLUTIONS<br>• 47 LOWER MAIN STREET, PORTLAND CT |                            |  |
| <u>Date Collected:</u>      | 12/17/2018 12:00                                                            | Collected by: CA of NELabs |  |
| <u>Laboratory ID #:</u>     | <u>1876024-05</u>                                                           |                            |  |
| <u>Product Description:</u> | <u>SP 0036</u><br>(derived as follows : SP0036 ← D0065 ← C0185 ← BMK050118) |                            |  |

| <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 samples submitted to Northeast Laboratories, Inc. on: 12/17/2018

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: 10/05/2018

Date Tested: 10/11 – 10/12 2018

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| <u>Sample Site:</u>         | CONNECTICUT PHARMACEUTICAL SOLUTIONS<br>• 47 LOWER MAIN STREET, PORTLAND CT |                            |  |
| <u>Date Collected:</u>      | 10/05/2018 9:40                                                             | Collected by: CA of NELabs |  |
| <u>Laboratory ID #:</u>     | <u>1875330-02</u>                                                           |                            |  |
| <u>Product Description:</u> | <u>SP 0036</u><br>(derived as follows : SP0036 ← D0065 ← C0185 ← BMK050118) |                            |  |

| <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:**

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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>Laboratory ID #:</u>     | <u>1876024-05</u>                                                           |                            |  |
| <u>Product Description:</u> | <u>SP 0036</u><br>(derived as follows : SP0036 ← D0065 ← C0185 ← BMK050118) |                            |  |

| <b>EXPANDED TERPENES</b><br><b>(% Dry Weight)</b> | <b>Result</b> | <b>Units</b> |
|---------------------------------------------------|---------------|--------------|
| a-pinene                                          | 0.02          | %            |
| camphene                                          | ---           | %            |
| sabinene                                          | ---           | %            |
| b-pinene                                          | 0.04          | %            |
| b-myrcene                                         | 0.04          | %            |
| a-phellandrene                                    | ---           | %            |
| 3-carene                                          | ---           | %            |
| a-terpinene                                       | ---           | %            |
| limonene                                          | 0.08          | %            |
| eucalyptol                                        | ---           | %            |
| ocimene                                           | ---           | %            |
| b-terpinene                                       | ---           | %            |
| terpineol                                         | ---           | %            |
| terpinolene                                       | ---           | %            |
| linalool                                          | ---           | %            |
| (+)-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: 12/17/2018

Approved By:

Alan C. Johnson, Laboratory Director

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|                             | • 47 LOWER MAIN STREET, PORTLAND CT                       |       |                            |
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| <u>Product Description:</u> | <u>SP 0036</u>                                            |       |                            |
|                             | (derived as follows : SP0036 ← D0065 ← C0185 ← BMK050118) |       |                            |

| <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                                   | ---           | %            |
| b-farnesene                                       | ---           | %            |
| humulene                                          | ---           | %            |
| 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: 12/17/2018

  
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| <u>Date Collected:</u>      | 10/05/2018 9:40                                                             | Collected by: CA of NELabs |  |
| <u>Laboratory ID #:</u>     | <u>1875330-02</u>                                                           |                            |  |
| <u>Product Description:</u> | <u>SP 0036</u><br>(derived as follows : SP0036 ← D0065 ← C0185 ← BMK050118) |                            |  |

| 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:**

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| <u>Product Description:</u> | <u>SP 0036</u><br>(derived as follows : SP0036 ← D0065 ← C0185 ← BMK050118) |                            |  |

| <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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|                             | (derived as follows : SP0036 ← D0065 ← C0185 ← BMK050118) |       |                            |

| <u>CANNABINOIDS (% weight)</u> | <u>Result</u> | <u>Units</u> |
|--------------------------------|---------------|--------------|
| CBDV                           | ----          | % weight     |
| CBDA                           | ----          | % weight     |
| CBGA                           | ----          | % weight     |
| CBG                            | ----          | % weight     |
| CBD                            | ----          | % weight     |
| THCV                           | ----          | % weight     |
| CBN                            | ----          | % weight     |
| d9-THC                         | 5.15          | % weight     |
| d8-THC                         | ----          | % weight     |
| CBL                            | ----          | % weight     |
| CBC                            | ----          | % weight     |
| THCA                           | ----          | % weight     |

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

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