

**Report To:**

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

Date Received: Pg. 1-5 = 1/05/2016  
 Pg. 6 = 1/12/2016

Date Tested: 1/05/2016  
 Laboratory Report#: N1664766 – 37 (pg 1-5)  
 N1664819 – 01 (pg 6)

Report Date: 1/13/2016

**Updated w/Terpene Results 1/15/2016 (pg 3)**

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**★ = REPORT 2/01/2016 = Cannabinoids**  
**UPDATE: (pg. 6) updated per**  
**#1664845-03 (CTS 100715)**

**★ = Per K. Provera's 1/31/2016 Email Instructions, Page #6 herein is updated as of 2/01/2016**  
**with results from the 1/13/2016 Sample #CTS100715 = NELabs' Rpt #1664845 – 03**  
**(which was received @ NELabs 1/13/2016, tested 1/14/2016 and 1<sup>st</sup> emailed by R.Picard on 1/14/2016)**

|                             |                                                                             |
|-----------------------------|-----------------------------------------------------------------------------|
| <b>Sample Site:</b>         | CONNECTICUT PHARMACEUTICAL SOLUTIONS<br>• 47 LOWER MAIN STREET, PORTLAND CT |
| <b>Date Collected:</b>      | 1/05/2016 10:35                                                             |
| <b>Collected by:</b>        | CA of NELabs                                                                |
| <b>Laboratory ID #:</b>     | 1664766 – 37                                                                |
| <b>Product Description:</b> | CTS #100715 FLOWER                                                          |

| <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: 1/05/2016

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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Date Received: **Pg. 1-5 = 1/05/2016****Pg. 6 = 1/12/2016**Date Tested: **1/11 + 1/12/2016**Laboratory Report#: **N1664766 – 37 (pg 1-5)****N1664819 – 01 (pg 6)**Report Date: **1/13/2016****E-Mail:** [rino.ferrarese@ctpharma.com](mailto:rino.ferrarese@ctpharma.com)[mjunewells@aerlimnology.com](mailto:mjunewells@aerlimnology.com)[kim.provo@ctpharma.com](mailto:kim.provo@ctpharma.com)

|                             |                                                                                    |
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| <b>Date Collected:</b>      | 1/05/2016 10:35                                                                    |
| <b>Collected by:</b>        | CA of NELabs                                                                       |
| <b>Laboratory ID #:</b>     | 1664766 – 36                                                                       |
| <b>Product Description:</b> | <b>CTS #100715 FLOWER</b>                                                          |

| <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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| <b>Collected by:</b>        | CA of NELabs                                                                       |
| <b>Laboratory ID #:</b>     | 1664766 – 37                                                                       |
| <b>Product Description:</b> | <b><u>CTS #100715 FLOWER</u></b>                                                   |

| <b>TERPENE PROFILE</b><br><b>(% Dry Weight)</b> | <b>Result</b> | <b>Units</b> |
|-------------------------------------------------|---------------|--------------|
| <b><u>Monoterpenoids</u></b>                    |               |              |
| a-pinene                                        | ---           | %            |
| b-pinene                                        | ---           | %            |
| b-myrcene                                       | 0.21          | %            |
| limonene                                        | 0.18          | %            |
| ocimene                                         | ---           | %            |
| terpinolene                                     | 0.13          | %            |
| linalool                                        | 0.04          | %            |
| <b><u>Sesquiterpenoids</u></b>                  |               |              |
| b-caryophyllene                                 | 0.45          | %            |
| humulene                                        | 0.17          | %            |
| trans-nerolidol                                 | ---           | %            |
| caryophyllene oxide                             | ---           | %            |
| b-eudesmol                                      | 0.09          | %            |

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

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 1/05/2016

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| <b>Collected by:</b>        | CA of NELabs                                                                       |
| <b>Laboratory ID #:</b>     | 1664766 – 37                                                                       |
| <b>Product Description:</b> | <b>CTS #100715 FLOWER</b>                                                          |

| <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:**

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| <b>Collected by:</b>        | CA of NELabs                                                                |
| <b>Laboratory ID #:</b>     | 1664766 – 37                                                                |
| <b>Product Description:</b> | CTS #100715 FLOWER                                                          |

| MYCOTOXINS                      |        |       |        |
|---------------------------------|--------|-------|--------|
| Parameter                       | Result | Units | Limits |
| <u>Method: USP 561-II</u>       |        |       |        |
| 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 |
| <u>Method: USP 561-II (Mod)</u> |        |       |        |
| 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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[mjunewells@aerlimnology.com](mailto:mjunewells@aerlimnology.com)  
[kim.provo@ctpharma.com](mailto:kim.provo@ctpharma.com)**REPORT UPDATE:** 2/01/2016 = Cannabinoids  
(pg. 6) updated per  
#1664845-03 (CTS 100715)

|                             |                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Sample Site:</b>         | CONNECTICUT PHARMACEUTICAL SOLUTIONS<br>• 47 LOWER MAIN STREET, PORTLAND CT                                                                                                                                                                                                                                                         |
| <b>Date Collected:</b>      | 1/12/2016 14:20                                                                                                                                                                                                                                                                                                                     |
| <b>Collected by:</b>        | CA of NELabs                                                                                                                                                                                                                                                                                                                        |
| <b>Laboratory ID #:</b>     | ★1664766-37<br>== Results Report per Rpt. 1664819 – 01 (as received 1/12/2016) ★                                                                                                                                                                                                                                                    |
| <b>Product Description:</b> | <b>CTS #100715 FLOWER</b><br><br>★= Per K. Provera's 1/31/2016 Email Instructions, Page #6 herein is updated as of 2/01/2016 with results per client's 1/13/2016 <b>Sample #CTS100715</b> = NELabs' Rpt #1664845 – 03== as received @ NELabs 1/13/2016, tested 1/14/2016 and as 1 <sup>st</sup> emailed by R.Picard on 1/14/2016 == |
| <b>REPORT UPDATE:</b>       |                                                                                                                                                                                                                                                                                                                                     |

| <u>CANNABINOIDS (% weight)</u> | <u>★1/13/2016</u> | <u>#N1664845-02 ★</u> |
|--------------------------------|-------------------|-----------------------|
|                                | <u>Result</u>     | <u>Units</u>          |
| CBDV                           | ----              | % weight              |
| CBDA                           | 12.80             | % weight              |
| CBGA                           | 0.59              | % weight              |
| CBG                            | ----              | % weight              |
| CBD                            | 0.31              | % weight              |
| THCV                           | ----              | % weight              |
| CBN                            | ----              | % weight              |
| THC                            | 0.40              | % weight              |
| CBC                            | ----              | % weight              |
| THCA                           | 10.30             | % weight              |

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

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 1/12/2016  
★ Report #N1664845-03 Cannabinoids results 1<sup>st</sup> Emailed to client 1/14/2016 == see above

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