# Analytical Report



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

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

Date Received: **5/20/2016**

Date Tested: **5/20/2016 & 5/24/2016**
Laboratory Report#: **NCPS052716-02**

Report Date: **5/27/2016**

| | |
|---|---|
| **Sample Site:** | **CONNECTICUT PHARMACEUTICAL SOLUTIONS**<br>• **47 LOWER MAIN STREET, PORTLAND CT** |
| **Date Collected:** | **5/20/2016 14:45 & 5/24/2016 9:30 Collected by: CA of NELabs** |
| **Laboratory ID #:** | **1666158-04 / 1666161-08** |
| **Product Description:** | **STK 010716** |

| Parameter | Result | Units | | Recommended Limits * |
|---|---|---|---|---|
| Total Aerobic Microbial Count | 59,000 | per gram | PASS | 100,000 |
| Total Yeast & Mold Count | <100 | per gram | PASS | 10,000 |
| Bile Tolerant Gram Negative Bacteria (re-test 5/24/2016) | <100 | per gram | PASS | 1,000 |
| Coliform (re-test 5/24/2016) | <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: 5/20/2016 & 5/24/2016

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

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| **Product Description:** | **STK 010716** |

**HEAVY METALS:**

| Parameter | Result | Units | | Limits |
|---|---|---|---|---|
| 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)**

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| **TERPENE PROFILE (% Dry Weight)** | **Result** | **Units** |
|---|---|---|
| **Monoterpenoids** | | |
| a-pinene | --- | % |
| b-pinene | --- | % |
| b-myrcene | 0.09 | % |
| limonene | 0.43 | % |
| ocimene | --- | % |
| terpinolene | --- | % |
| linalool | 0.43 | % |
| **Sesquiterpenoids** | | |
| b-caryophyllene | 0.59 | % |
| humulene | 0.71 | % |
| trans-nerolidol | --- | % |
| caryophyllene oxide | --- | % |
| b-eudesmol | --- | % |

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

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**MYCOTOXINS**

| Parameter | Result | Units | | Limits |
|---|---|---|---|---|
| *Method: USP 561-II* | | | | |
| 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 |
| *Method: USP 561-II (Mod)* | | | | |
| 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)**

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| **Date Collected:** | **5/25/2016 14:30** **Collected by: CA of NELabs** |
| **Laboratory ID #:** | **1666140-06** |
| **Product Description:** | **STK 010716** |

| **CANNABINOIDS (% weight)** | **= Retest #GTH-C = 1665893-06 Result** | **Units** |
|---|---|---|
| CBDV | ---- | % weight |
| CBDA | ---- | % weight |
| CBGA | 0.63 | % weight |
| CBG | ---- | % weight |
| CBD | ---- | % weight |
| THCV | ---- | % weight |
| CBN | ---- | % weight |
| THC | 0.50 | % weight |
| CBC | ---- | % weight |
| THCA | 24.49 | % weight |

**METHODS:** **HPLC**

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