

**Report To:**

Connecticut Pharmaceutical Solutions

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

47 Lower Main St

Portland CT 06480

Date Received: **05/09/2018**Date Tested: **05/09 & 05/10 2018**Laboratory Report#: **NCPS0517518-03**Report Date: **05/17/2018**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)

|                                    |                                                                             |                            |  |
|------------------------------------|-----------------------------------------------------------------------------|----------------------------|--|
| <b><u>Sample Site:</u></b>         | CONNECTICUT PHARMACEUTICAL SOLUTIONS<br>• 47 LOWER MAIN STREET, PORTLAND CT |                            |  |
| <b><u>Date Collected:</u></b>      | 05/09/2018 14:45                                                            | Collected by: CA of NELabs |  |
| <b><u>Laboratory ID #:</u></b>     | <u>1873809-13</u>                                                           |                            |  |
| <b><u>Product Description:</u></b> | HSH 121317                                                                  |                            |  |

| <u>Parameter</u>                     | <u>Result</u> | <u>Units</u> | <u>Recommended Limits *</u> |              |
|--------------------------------------|---------------|--------------|-----------------------------|--------------|
| Total Aerobic Microbial Count        | <100          | per gram     | PASS                        | 100,000      |
| Total Yeast & Mold Count             | 200           | 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, AltaSci E.coli (pathogenic strains) Salmonella spp.**Comments:**

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 05/09/2018
- \* Enteropathogenic E.coli and Salmonella Species tested by AltaSci Labs, 1 Hartford Square, New Britain CT.

Approved By:

Alan C. Johnson, Laboratory Director

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| <b><u>Laboratory ID #:</u></b>     | <u>1873809-13</u>                                                           |                            |  |
| <b><u>Product Description:</u></b> | HSH 121317                                                                  |                            |  |

| <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: 05/09/2018
- Heavy Metals tested by AltaSci Labs, 1 Hartford Square, New Britain CT.

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|                                |                                                                                           |                                   |  |
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| <b><u>Date Collected:</u></b>  | <b>05/09/2018 14:45</b>                                                                   | <b>Collected by: CA of NELabs</b> |  |
| <b><u>Laboratory ID #:</u></b> | <b><u>1873809-13</u></b>                                                                  |                                   |  |
| <b>Product Description:</b>    | <b>HSH 121317</b>                                                                         |                                   |  |

| <b>EXPANDED TERPENES</b><br><b>(% Dry Weight)</b> | <b>Result</b> | <b>Units</b> |
|---------------------------------------------------|---------------|--------------|
| a-pinene                                          | 0.26          | %            |
| camphene                                          | ---           | %            |
| sabinene                                          | ---           | %            |
| b-pinene                                          | 0.18          | %            |
| b-myrcene                                         | 1.53          | %            |
| a-phellandrene                                    | ---           | %            |
| 3-carene                                          | ---           | %            |
| a-terpinene                                       | ---           | %            |
| limonene                                          | ---           | %            |
| eucalyptol                                        | ---           | %            |
| ocimene                                           | ---           | %            |
| b-terpinene                                       | ---           | %            |
| terpineol                                         | ---           | %            |
| terpinolene                                       | ---           | %            |
| linalool                                          | 0.07          | %            |
| (+)-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: 05/09/2018

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| <b>Laboratory ID #:</b>     | <u>1873809-13</u>                                                           |                            |  |
| <b>Product Description:</b> | HSH 121317                                                                  |                            |  |

| <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                                   | 0.12          | %            |
| b-farnesene                                       | ---           | %            |
| humulene                                          | 0.05          | %            |
| 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: 05/09/2018

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| <b>Laboratory ID #:</b>     | <u>1873809-13</u>                                                           |                            |  |
| <b>Product Description:</b> | HSH 121317                                                                  |                            |  |

| <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: 05/09/2018
- Pesticides tested by AltaSci Labs, 1 Hartford Square, New Britain CT.

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| <b><u>Date Collected:</u></b>      | 05/09/2018 14:45                                                            | Collected by: CA of NELabs |  |
| <b><u>Laboratory ID #:</u></b>     | <u>1873809-13</u>                                                           |                            |  |
| <b><u>Product Description:</u></b> | HSH 121317                                                                  |                            |  |

| <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: 05/09/2018
- Mycotoxins tested by AltaSci Labs, 1 Hartford Square, New Britain CT.

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| <b><u>Date Collected:</u></b>      | 05/15/2018 14:39                                                            | Collected by: WC of NELabs |  |
| <b><u>Laboratory ID #:</u></b>     | <u>1873809-13</u>                                                           |                            |  |
| <b><u>Product Description:</u></b> | HSH 121317 – B                                                              |                            |  |

| <u>CANNABINOIDS (% weight)</u> | <u>Result</u> | <u>Units</u> |
|--------------------------------|---------------|--------------|
| CBDV                           | ----          | % weight     |
| CBDA                           | ----          | % weight     |
| CBGA                           | 0.56          | % weight     |
| CBG                            | ----          | % weight     |
| CBD                            | ----          | % weight     |
| THCV                           | ----          | % weight     |
| CBN                            | ----          | % weight     |
| d9-THC                         | 0.41          | % weight     |
| d8-THC                         | ----          | % weight     |
| CBL                            | ----          | % weight     |
| CBC                            | ----          | % weight     |
| THCA                           | 26.25         | % weight     |

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

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