NORTHEAST LABORATORIES

# CERTIFICATE OF ANALYSIS



**CTPharma**
280 Dividend Dr.
Rocky Hill, CT 06067

Date Received: 07/19/2023
Report Date: 07/27/2023
NELabs Report ID: 2390802-05

## Product ID: LIM012523

| Microbiology | Results (CFU) | Limits (CFU) | Methods |
|---|---|---|---|
| Total Aerobic Microbial Count | <100 | 100,000 | AOAC 990.12 |
| Total Yeast & Mold Count | <100 | 100,000 | AOAC 2014.05 |
| *Aspergillus (flavus, fumigatus, terreus, niger)* | Not Detected | Not Detected | qPCR |
| Enteropathogenic *E. coli* | Not Detected | Not Detected | AOAC 2017.01 |
| *Listeria Monocytogenes* | Not Detected | Not Detected | AOAC 2016.08 |
| *Salmonella* species | Not Detected | Not Detected | AOAC 2016.01 |
| Shiga Toxin Producing *E. coli* | Not Detected | Not Detected | FDA BAM |
| **Pass/Fail**: **PASS** | | | |

| Cannabinoids by HPLC | Results (% w/w[a]) |
|---|---|
| CBDV | ---- |
| CBDA | 0.09 |
| CBGA | 0.30 |
| CBG | 0.09 |
| CBD | ---- |
| THCV | ---- |
| CBN | ---- |
| $\Delta^9$ THC | 0.88 |
| CBL | ---- |
| CBC | ---- |
| THCA | 30.74 |
| Total Cannabinoids | **32.10 %** |
| **Total THC: 27.84 %** | |

*[a]: percentages reported by dry weight*

| Moisture | Results |
|---|---|
| Water Content (% w/w) | 15.90 |
| Water Activity (Aw) | 0.56 |

| Terpenes by GC-MS | Results (% w/w[a]) |
|---|---|
| α-Pinene | 0.04 |
| Camphene | 0.01 |
| β-Myrcene | 0.19 |
| β-Pinene | 0.07 |
| 3-Carene | ---- |
| α-Terpinene | ---- |
| Limonene | 0.17 |
| Ocimene | ---- |
| p-Cymene | ---- |
| γ-Terpinene | ---- |
| Terpinolene | 0.01 |
| Linalool | 0.06 |
| (-)-Isopulegol | ---- |
| Geraniol | ---- |
| β-Caryophyllene | 0.62 |
| α-Humulene | 0.20 |
| cis-Nerolidol | 0.04 |
| trans-Nerolidol | ---- |
| Guaiol | ---- |
| α-Bisabolol | 0.01 |
| **Total Terpenes: 1.42 %** | |

*[a]: percentages reported by dry weight*

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| **Pesticides** by LC-MS/MS | **Results** | **Limits** |
|---|---|---|
| Per Sample ≥ 0.5g | Not Detected | Below Action Levels |
| **Pass/Fail**: **PASS** | | |

| **Heavy Metals** by ICP-MS | **Results** | **Limits** |
|---|---|---|
| As, Cd, Pb, Hg | Below Detection | Below Action Levels |
| **Pass/Fail**: **PASS** | | |

| **Mycotoxins** by LC-MS/MS | **Results (µg/kg)** | **Limits (µg/kg)** |
|---|---|---|
| Aflatoxins (B1, B2, G1, G2) | <20 each | <20 each |
| Ochratoxin-A | <20 | <20 |
| **Pass/Fail**: **PASS** | | |

NOTE: Results are for sample(s) submitted to Northeast Laboratories Inc. on 07/19/2023.

| Date: | Reviewed by: | Released by: |
|---|---|---|
| 07/27/2023 | Michelle Szylobryt, QA / QC | Zachary Cannone, Laboratory Director |

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISOILAC-IAF Communiqué dated April 2017).