

# Certificate of Analysis

Produced: Oct 29, 2024

Sample: Full Spectrum CBD Lip Balm 200mg (Topical) • Client: Neurogan Inc. • Batch: Passed as California Hemp



**Batch No.:** DK23-2421-2431  
**Matrix:** Topical  
**Sample ID:** ICC-241017-34-001  
**Collected on:** Oct 17, 2024  
**Received on:** Oct 17, 2024  
**Sample Size:** 4.54 g  
**Received By:** Rebecca Fischer  
**Package Size:** 4.82 g

Batch Result: Passed as California Hemp

|                  |        |                   |      |
|------------------|--------|-------------------|------|
| <b>Potency</b>   | Tested | <b>Mycotoxins</b> | Pass |
| <b>Foreign</b>   | Pass   | <b>Pesticides</b> | Pass |
| <b>Metals</b>    | Pass   | <b>Solvents</b>   | Pass |
| <b>Microbial</b> | Pass   |                   |      |

### Cannabinoid Overview

|                             |                    |
|-----------------------------|--------------------|
| <b>Δ<sup>9</sup>-THC:</b>   | <b>3.27 mg/pkg</b> |
| <b>CBD:</b>                 | <b>204 mg/pkg</b>  |
| <b>Sum of Cannabinoids:</b> | <b>221 mg/pkg</b>  |

### POT-INST-005: Potency

| Analyte | Amt (mg/pkg) | Amt (%) | Amt (mg/g) | LOD/LOQ (mg/g) |
|---------|--------------|---------|------------|----------------|
| CBC     |              | ND      | ND         | 0.0275/0.0824  |
| CBD     | 204          | 4.24    | 42         | 0.00840/0.0416 |
| CBDA    |              | ND      | ND         | 0.0201/0.0602  |
| CBDV    | 1.04         | 0.0215  | 0.22       | 0.00666/0.0416 |
| CBG     | 2.99         | 0.0621  | 0.62       | 0.00948/0.0416 |
| CBGA    |              | ND      | ND         | 0.0148/0.0445  |
| CBL     |              | ND      | ND         | 0.00655/0.0416 |
| CBN     | 8.10         | 0.168   | 1.7        | 0.00948/0.0416 |

| Analyte             | Amt (mg/pkg) | Amt (%)       | Amt (mg/g)  | LOD/LOQ (mg/g) |
|---------------------|--------------|---------------|-------------|----------------|
| CBT                 |              | ND            | ND          | 0.01119/0.0416 |
| Δ <sup>8</sup> -THC | 0.358        | 0.00743       | 0.074       | 0.00673/0.0416 |
| Δ <sup>9</sup> -THC | 3.27         | 0.0678        | 0.68        | 0.0111/0.0416  |
| THCA                |              | ND            | ND          | 0.0153/0.0458  |
| THCV                | 0.506        | 0.0105        | 0.11        | 0.00514/0.0416 |
| <b>Total THC**</b>  | <b>3.62</b>  | <b>0.0752</b> | <b>0.75</b> |                |
| <b>Total CBD**</b>  | <b>204</b>   | <b>4.24</b>   | <b>42</b>   |                |

Total THC = THCa \* 0.877 + d9-THC; Total CBD = CBDa \* 0.877 + CBD; NR= Not Reported, ND= Not Detected, \*Reported by Dry Mass\*; \*analytical instrumentation used Cannabinoids: UHPLC-DAD, Moisture: Mass by Drying, Water Activity: Water Activity Meter, Foreign: Microscope\* \*Density tested at a temperature range between 19-24 °C, \*\*Water Activity tested at a humidity range between 0-90% Relative Humidity. All OA samples are sampled by the client, All California State Compliant samples sampled using SAMPL-SOP-001.

### PEST-GC-PREP-001, PEST-GC-INST-003: Pesticide Analysis by GC-MS/MS

| Analyte      | Limit (µg/g) | Amt (µg/g) | LOD/LOQ (µg/g) | Pass/Fail | Analyte                 | Limit (µg/g) | Amt (µg/g) | LOD/LOQ (µg/g) | Pass/Fail |
|--------------|--------------|------------|----------------|-----------|-------------------------|--------------|------------|----------------|-----------|
| Captan       | 5            | ND         | 0.120/0.358    | Pass      | Cypermethrin            | 1            | ND         | 0.0145/0.0435  | Pass      |
| Chlordane    | Any amt      | ND         | 0.0249/0.0747  | Pass      | Methyl parathion        | Any amt      | ND         | 0.00811/0.0243 | Pass      |
| Chlorfenapyr | Any amt      | ND         | 0.0251/0.0753  | Pass      | Pentachloronitrobenzene | 0.2          | ND         | 0.0182/0.0545  | Pass      |
| Cyfluthrin   | 1            | ND         | 0.0186/0.0558  | Pass      |                         |              |            |                |           |



**PESTMYCO-LC-PREP-001, PESTMYCO-LC-INST-004: Pesticide Analysis by LC-MS/MS**

| Analyte             | Limit (µg/g) | Amt (µg/g) | LOD/LOQ (µg/g) | Pass/Fail | Analyte                 | Limit (µg/g) | Amt (µg/g) | LOD/LOQ (µg/g) | Pass/Fail |
|---------------------|--------------|------------|----------------|-----------|-------------------------|--------------|------------|----------------|-----------|
| Abamectin           | 0.3          | ND         | 0.0500/0.100   | Pass      | Malathion               | 5            | ND         | 0.00673/0.0300 | Pass      |
| Abamectin Ba        |              | ND         | 0.0500/0.100   | N/A       | Metalaxyl               | 15           | ND         | 0.00467/0.0300 | Pass      |
| Acephate            | 5            | ND         | 0.00629/0.0300 | Pass      | Methiocarb              | Any amt      | ND         | 0.00956/0.0300 | Pass      |
| Acequinocyl         | 4            | ND         | 0.0280/0.0848  | Pass      | Methomyl                | 0.1          | ND         | 0.0105/0.0318  | Pass      |
| Acetamiprid         | 5            | ND         | 0.00718/0.0300 | Pass      | Mevinphos               | Any amt      | ND         | 0.0133/0.0404  | Pass      |
| Aldicarb            | Any amt      | ND         | 0.00997/0.0302 | Pass      | Myclobutanil            | 9            | ND         | 0.00963/0.0300 | Pass      |
| Azoxystrobin        | 40           | ND         | 0.00400/0.0300 | Pass      | Naled                   | 0.5          | ND         | 0.0116/0.0350  | Pass      |
| Bifenazate          | 5            | ND         | 0.00787/0.0300 | Pass      | Oxamyl                  | 0.2          | ND         | 0.0103/0.0311  | Pass      |
| Bifenthrin          | 0.5          | ND         | 0.0162/0.0490  | Pass      | Paclobutrazol           | Any amt      | ND         | 0.0111/0.0337  | Pass      |
| Boscalid            | 10           | ND         | 0.0106/0.0321  | Pass      | Permethrin              | 20           | ND         | 0.00396/0.0300 | Pass      |
| Carbaryl            | 0.5          | ND         | 0.00614/0.0300 | Pass      | Permethrin cis          |              | ND         | 0.0200/0.0300  | N/A       |
| Carbofuran          | Any amt      | ND         | 0.00384/0.0300 | Pass      | Permethrin trans        |              | ND         | 0.0200/0.0300  | N/A       |
| Chlorantraniliprole | 40           | ND         | 0.00657/0.0300 | Pass      | Phosmet                 | 0.2          | ND         | 0.00807/0.0300 | Pass      |
| Chlorpyrifos        | Any amt      | ND         | 0.0108/0.0327  | Pass      | Piperonylbutoxide       | 8            | ND         | 0.00869/0.0300 | Pass      |
| Clofentezine        | 0.5          | ND         | 0.00595/0.0300 | Pass      | Prallethrin             | 0.4          | ND         | 0.0204/0.0618  | Pass      |
| Coumaphos           | Any amt      | ND         | 0.00712/0.0300 | Pass      | Propiconazole           | 20           | ND         | 0.0210/0.0637  | Pass      |
| Daminozide          | Any amt      | ND         | 0.0190/0.0576  | Pass      | Propoxur                | Any amt      | ND         | 0.00656/0.0300 | Pass      |
| Diazinon            | 0.2          | ND         | 0.0271/0.0821  | Pass      | Pyrethrins              | 1            | ND         | 0.00357/0.0300 | Pass      |
| Dichlorvos          | Any amt      | ND         | 0.0168/0.0508  | Pass      | Pyrethrins Pyrethrin I  |              | ND         | 0.0100/0.0450  | N/A       |
| Dimethoate          | Any amt      | ND         | 0.00906/0.0300 | Pass      | Pyrethrins Pyrethrin II |              | ND         | 0.0100/0.0300  | N/A       |
| Dimethomorph        | 20           | ND         | 0.0102/0.0308  | Pass      | Pyridaben               | 3            | ND         | 0.00834/0.0300 | Pass      |
| Ethoprophos         | Any amt      | ND         | 0.00586/0.0300 | Pass      | Spinetoram              | 3            | ND         | 0.00317/0.0300 | Pass      |
| Etofenprox          | Any amt      | ND         | 0.00642/0.0300 | Pass      | Spinetoram J            |              | ND         | 0.00500/0.0100 | N/A       |
| Etoxazole           | 1.5          | ND         | 0.00498/0.0300 | Pass      | Spinetoram L            |              | ND         | 0.00500/0.0100 | N/A       |
| Fenhexamid          | 10           | ND         | 0.0147/0.0444  | Pass      | Spinosad                | 3            | ND         | 0.00302/0.0300 | Pass      |
| Fenoxycarb          | Any amt      | ND         | 0.0111/0.0335  | Pass      | Spinosad A              |              | ND         | 0.00500/0.0100 | N/A       |
| Fenpyroximate       | 2            | ND         | 0.00952/0.0300 | Pass      | Spinosad D              |              | ND         | 0.00500/0.0100 | N/A       |
| Fipronil            | Any amt      | ND         | 0.00568/0.0300 | Pass      | Spiromesifen            | 12           | ND         | 0.0103/0.0311  | Pass      |
| Fonicamid           | 2            | ND         | 0.0181/0.0548  | Pass      | Spirotetramat           | 13           | ND         | 0.00992/0.0301 | Pass      |
| Fludioxonil         | 30           | ND         | 0.0192/0.0583  | Pass      | Spiroxamine             | Any amt      | ND         | 0.00395/0.0300 | Pass      |
| Hexythiazox         | 2            | ND         | 0.0217/0.0657  | Pass      | Tebuconazole            | 2            | ND         | 0.0213/0.0645  | Pass      |
| Imazalil            | Any amt      | ND         | 0.00937/0.0300 | Pass      | Thiacloprid             | Any amt      | ND         | 0.00348/0.0300 | Pass      |
| Imidacloprid        | 3            | ND         | 0.0231/0.0700  | Pass      | Thiamethoxam            | 4.5          | ND         | 0.00914/0.0300 | Pass      |
| Kresoxim-methyl     | 1            | ND         | 0.00982/0.0300 | Pass      | Trifloxystrobin         | 30           | ND         | 0.00378/0.0300 | Pass      |

**PESTMYCO-LC-PREP-001, PESTMYCO-LC-INST-004: Mycotoxin Analysis by LC-MS/MS**

| Analyte      | Limit (µg/kg) | Amt (µg/kg) | LOD/LOQ (µg/kg) | Pass/Fail | Analyte      | Limit (µg/kg) | Amt (µg/kg) | LOD/LOQ (µg/kg) | Pass/Fail |
|--------------|---------------|-------------|-----------------|-----------|--------------|---------------|-------------|-----------------|-----------|
| Aflatoxin B1 |               | ND          | 1.94/5.88       | N/A       | Aflatoxin G2 |               | ND          | 1.54/5.00       | N/A       |
| Aflatoxin B2 |               | ND          | 2.65/8.04       | N/A       | Aflatoxins   | 20            | ND          |                 | Pass      |
| Aflatoxin G1 |               | ND          | 3.91/11.9       | N/A       | Ochratoxin A | 20            | ND          | 4.78/14.5       | Pass      |

**RS-PREP-001, RS-INST-003: Residual Solvents by GC-MS**

| Analyte            | Limit (µg/g) | Amt (µg/g) | LOD/LOQ (µg/ml) | Pass/Fail | Analyte            | Limit (µg/g) | Amt (µg/g) | LOD/LOQ (µg/ml) | Pass/Fail |
|--------------------|--------------|------------|-----------------|-----------|--------------------|--------------|------------|-----------------|-----------|
| 1,2-Dichloroethane | 1            | ND         | 0.139/0.425     | Pass      | Hexane             | 290          | ND         | 0.0551/0.235    | Pass      |
| Acetone            | 5000         | ND         | 14.3/42.8       | Pass      | Isopropyl alcohol  |              | ND         | 1.07/3.21       | N/A       |
| Acetonitrile       | 410          | 1.21       | 0.100/0.300     | Pass      | Methanol           | 3000         | < LOQ      | 2.48/7.45       | Pass      |
| Benzene            | 1            | ND         | 0.0175/0.0534   | Pass      | Methylene chloride | 1            | ND         | 0.106/0.609     | Pass      |
| Butane             | 5000         | ND         | 0.811/4.05      | Pass      | Pentane            | 5000         | ND         | 0.803/3.57      | Pass      |
| Chloroform         | 1            | ND         | 0.0301/0.0902   | Pass      | Propane            | 5000         | ND         | 3.70/11.1       | Pass      |
| Ethanol            |              | 67.1       | 2.18/6.55       | N/A       | Toluene            | 890          | < LOQ      | 0.0735/0.722    | Pass      |
| Ethyl acetate      | 5000         | 2.02       | 0.261/1.91      | Pass      | Trichloroethylene  | 1            | ND         | 0.0150/0.121    | Pass      |
| Ethylene oxide     | 1            | ND         | 0.128/0.484     | Pass      | o-Xylene           |              | ND         | 0.0841/0.716    | N/A       |
| Ethyl ether        | 5000         | ND         | 0.988/2.96      | Pass      | p- and m-Xylene    |              | ND         | 0.0964/1.43     | N/A       |
| Heptane            | 5000         | ND         | 0.574/2.39      | Pass      | Total xylenes      | 2170         | ND         | 0.0168/0.143    | Pass      |

**MICRO-PREP-001, MICRO-INST-001: PCR-Microbial (inhalable)**

| Analyte               | Amt | Pass/Fail | Analyte                       | Amt | Pass/Fail |
|-----------------------|-----|-----------|-------------------------------|-----|-----------|
| Aspergillus flavus    | ND  | N/A       | Aspergillus terreus           | ND  | N/A       |
| Aspergillus fumigatus | ND  | N/A       | Salmonella spp.               | ND  | Pass      |
| Aspergillus niger     | ND  | N/A       | Shiga toxin-producing E. coli | ND  | Pass      |

**HM-PREP-001, HM-INST-003: Heavy Metals Testing by ICP-MS**

| Analyte | Limit (µg/g) | Amt (µg/g) | LOD/LOQ (µg/g)  | Pass/Fail | Analyte | Limit (µg/g) | Amt (µg/g) | LOD/LOQ (µg/g)  | Pass/Fail |
|---------|--------------|------------|-----------------|-----------|---------|--------------|------------|-----------------|-----------|
| Arsenic | 1.5          | ND         | 0.00300/0.00900 | Pass      | Lead    | 0.5          | < LOQ      | 0.00100/0.00400 | Pass      |
| Cadmium | 0.5          | ND         | 0.00100/0.00200 | Pass      | Mercury | 3            | ND         | 0.00500/0.0140  | Pass      |

