



261 Mountain View Dr  
 Colchester, VT 05446  
 License #: TLAB0030  
 802-767-7256  
 info@onwardanalytics.biz

# Certificate of Analysis

**Client Name:** Grateful Grow  
**License Number:** CLTV0370

**Sample ID:** VT16810  
**Sample Name:** Medellin  
**Sample Lot:** 1  
**Sample Matrix:** Flower  
**Date Received:** 12/17/2024  
**Date Reported:** 12/26/2024  
**Date Tested:** 12/19/2024



| Total Cannabinoids         |               |                |
|----------------------------|---------------|----------------|
|                            | %             | mg/g           |
| <b>Total THC:</b>          | <b>26.812</b> | <b>268.121</b> |
| <b>Total CBD:</b>          | <b>--</b>     | <b>--</b>      |
| <b>Total Cannabinoids:</b> | <b>31.529</b> | <b>315.288</b> |

**Total theoretical CBD % = (CBD%) + (CBDA% \* 0.877)**  
**Total theoretical THC % = (delta-9-THC%) + (THCA% \* 0.877)**

## Potency

Standard potency analysis utilizing High Performance Liquid Chromatography (HPLC; SOP-024-OA) | Test ID: #54516

| Analyte | % (Dry) | mg/g (Dry) | %       | mg/g    | LOD (mg/g) | LOQ (mg/g) |
|---------|---------|------------|---------|---------|------------|------------|
| CBC     | ND      | ND         | ND      | ND      | 0.0003     | 0.0040     |
| CBCA    | < LOQ   | < LOQ      | < LOQ   | < LOQ   | 0.0002     | 0.0040     |
| CBD     | < LOQ   | < LOQ      | < LOQ   | < LOQ   | 0.0008     | 0.0040     |
| CBDA    | ND      | ND         | ND      | ND      | 0.0002     | 0.0040     |
| CBDV    | < LOQ   | < LOQ      | < LOQ   | < LOQ   | 0.0008     | 0.0040     |
| CBDVA   | ND      | ND         | ND      | ND      | 0.0001     | 0.0040     |
| CBG     | ND      | ND         | ND      | ND      | 0.0009     | 0.0040     |
| CBGA    | 0.9563  | 9.563      | 0.8516  | 8.516   | 0.0001     | 0.0040     |
| CBN     | ND      | ND         | ND      | ND      | 0.0004     | 0.0040     |
| CBNA    | ND      | ND         | ND      | ND      | 0.0002     | 0.0040     |
| D8 THC  | < LOQ   | < LOQ      | < LOQ   | < LOQ   | 0.0012     | 0.0040     |
| D9 THC  | < LOQ   | < LOQ      | < LOQ   | < LOQ   | 0.0016     | 0.0049     |
| D10 THC | ND      | ND         | ND      | ND      | 0.0004     | 0.0040     |
| THCA    | 30.5725 | 305.725    | 27.2279 | 272.279 | 0.0002     | 0.0040     |
| THCV    | ND      | ND         | ND      | ND      | 0.0016     | 0.0049     |
| THCVA   | < LOQ   | < LOQ      | < LOQ   | < LOQ   | 0.0002     | 0.0040     |

## Moisture & Water Activity PASS

Water Activity and Moisture Content Analysis (SOP-202-OA) | Test ID: #54517

| Analyte        | Result (%) | Limit | Pass/Fail |
|----------------|------------|-------|-----------|
| Moisture       | 10.94      | 13.00 |           |
| Water Activity | 0.48       | 0.65  | PASS      |

Callie Chapman  
 Lab Director  
 12/26/2024

Rev. 1 Initial Release

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## Pathogens PASS

Microbiological screening utilizing qPCR (SOP-204-OA) | Test ID: #54519

| Analyte      | Result        | Pass/Fail |
|--------------|---------------|-----------|
| A. Fumigatus | None Detected | PASS      |
| A. Niger     | None Detected | PASS      |
| A. Flavus    | None Detected | PASS      |
| A. Terreus   | None Detected | PASS      |
| STEC         | None Detected | PASS      |
| Salmonella   | None Detected | PASS      |



*Callie Chapman*

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# Certificate of Analysis

**Client Name:** Grateful Grow  
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**Sample ID:** VT16812  
**Sample Name:** HL: S, CJ, BZ, M, CM  
**Sample Lot:** 1  
**Sample Matrix:** Flower  
**Date Received:** 12/17/2024  
**Date Reported:** 12/26/2024  
**Date Tested:** 12/18/2024



## Pesticides Pass

Residual pesticide analysis utilizing Liquid Chromatography – Mass Spectrometry (LC-MSMS; SOP-070-OA) - **Limit units: ppm** | Test ID: #54526

| Analyte       | Pass/Fail | Result (ppm) | Limit   | LOD (ppm) | LOQ (ppm) |
|---------------|-----------|--------------|---------|-----------|-----------|
| Abamectin B1a | Pass      | ND           | 0.10000 | 0.00687   | 0.02081   |
| Abamectin B1b | Pass      | ND           | 0.10000 | 0.00133   | 0.00405   |
| Acephate      | Pass      | ND           | 0.10000 | 0.02214   | 0.06710   |
| Acequinocyl   | Pass      | ND           | 0.10000 | 0.02276   | 0.06897   |
| Azoxystrobin  | Pass      | ND           | 0.10000 | 0.01262   | 0.03825   |
| Bifenazate    | Pass      | ND           | 0.10000 | 0.01232   | 0.03734   |
| Bifenthrin    | Pass      | ND           | 3.00000 | 0.04612   | 0.13976   |
| Carbaryl      | Pass      | ND           | 0.50000 | 0.01039   | 0.03149   |
| Chlorpyrifos  | Pass      | ND           | 0.04000 | 0.00702   | 0.02128   |
| Cypermethrin  | Pass      | ND           | 1.00000 | 0.02839   | 0.08604   |
| Etoazole      | Pass      | ND           | 0.10000 | 0.00915   | 0.02772   |
| Imazalil      | Pass      | ND           | 0.04000 | 0.00664   | 0.02012   |
| Imidacloprid  | Pass      | ND           | 5.00000 | 0.02001   | 0.06063   |
| Myclobutanil  | Pass      | ND           | 0.10000 | 0.01691   | 0.05123   |
| Spinosyn A    | Pass      | ND           | 0.10000 | 0.00632   | 0.01916   |
| Spinosyn D    | Pass      | ND           | 0.10000 | 0.00256   | 0.00775   |
| Pyrethrins    | Pass      | ND           | 0.50000 | 0.00022   | 0.00072   |
|               |           |              |         | 0.00498 * | 0.00015 * |

\* Pyrethrins action limit represents sum of isomers I & II



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**Total Terpenes (%) : 1.6812**

| Dominant Terpenes (%) |        |
|-----------------------|--------|
| Limonene              | 0.5163 |
| beta-caryophyllene    | 0.5162 |
| alpha-Humulene        | 0.1532 |
| Myrcene               | 0.1256 |
| Linalool              | 0.0924 |

## Terpenes

Standard terpene analysis utilizing Gas Chromatography – Mass Spectrometry (GC-MS; SOP-069-OA) | Test ID: #54518

| Analyte               | Result (%)    | Result (mg/g) | LOD (mg/g) | LOQ (mg/g) |
|-----------------------|---------------|---------------|------------|------------|
| 3-Carene              | ND            | ND            | 0.000002   | 0.001      |
| alpha-Bisabolol       | 0.0602        | 0.602         | 0.000003   | 0.001      |
| alpha-Humulene        | 0.1532        | 1.532         | 0.000002   | 0.001      |
| alpha-Pinene          | 0.0367        | 0.367         | 0.000001   | 0.001      |
| alpha-Terpinene       | ND            | ND            | 0.000001   | 0.001      |
| alpha-Terpinolene     | 0.0064        | 0.064         | 0.000004   | 0.001      |
| beta-caryophyllene    | 0.5162        | 5.162         | 0.000004   | 0.001      |
| beta-Pinene           | 0.0673        | 0.673         | 0.000002   | 0.001      |
| Camphene              | 0.0097        | 0.097         | 0.000001   | 0.001      |
| Caryophyllene Oxide   | 0.0123        | 0.123         | 0.000011   | 0.001      |
| Eucalyptol            | ND            | ND            | 0.000002   | 0.001      |
| gamma-Terpinene       | ND            | ND            | 0.000002   | 0.001      |
| Geraniol              | 0.0171        | 0.171         | 0.000008   | 0.003      |
| Guaiol                | ND            | ND            | 0.000007   | 0.001      |
| Isopulegol            | ND            | ND            | 0.000005   | 0.001      |
| Isopropyl Toluene     | ND            | ND            | 0.000003   | 0.001      |
| Limonene              | 0.5163        | 5.163         | 0.000002   | 0.001      |
| Linalool              | 0.0924        | 0.924         | 0.000003   | 0.001      |
| Nerolidol             | 0.0678        | 0.678         | 0.000007   | 0.001      |
| Myrcene               | 0.1256        | 1.256         | 0.000003   | 0.001      |
| Ocimene               | ND            | ND            | 0.000002   | 0.001      |
| <b>Total Terpenes</b> | <b>1.6812</b> | <b>16.812</b> |            |            |

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