

## Sour Chem Dud

**Sample ID:** BIA251217S0432  
**Strain:** HL-14  
**Harvest Lot:**  
**Matrix:** Plant  
**Type:** Flower - Cured  
**Sample Size:** 7.43 g  
**Lot#:**

**Produced:**  
**Collected:**  
**Received:** 12/17/2025  
**Completed:** 12/24/2025  
**Batch#:**

**Client:**  
**Green Castle**  
**Lic. #**  
**853 RT 15W**  
**Johnson, VT 05656**



## Summary

| Test           | Date Tested | Result              |
|----------------|-------------|---------------------|
| Sample         |             | Complete            |
| Cannabinoids   | 12/19/2025  | Complete            |
| Moisture       | 12/18/2025  | 8.30% - Complete    |
| Water Activity | 12/18/2025  | 0.411 aw - Complete |
| Terpenes       | 12/22/2025  | Complete            |
| Microbials     | 12/24/2025  | Complete            |
| Pesticides     | 12/22/2025  | Complete            |

## Cannabinoids

Completed

| 26.95%<br>Total THC |        |         |         |            | 0.08%<br>Total CBD |        |              |               |             | 33.07%<br>Total Cannabinoids |      |         |         |            |
|---------------------|--------|---------|---------|------------|--------------------|--------|--------------|---------------|-------------|------------------------------|------|---------|---------|------------|
| Analyte             | LOQ    | Results | Results | Mass       | Analyte            | LOQ    | Results      | Results       | Mass        | Analyte                      | LOQ  | Results | Results | Mass       |
|                     | mg/g   | %       | mg/g    | mg/serving |                    | mg/g   | %            | mg/g          | mg/serving  |                              | mg/g | %       | mg/g    | mg/serving |
| CBDVa               | 0.0003 | <LOQ    | <LOQ    |            | CBCVa              | 0.0003 | <LOQ         | <LOQ          |             |                              |      |         |         |            |
| CBDV                | 0.0003 | <LOQ    | <LOQ    |            | CBNa               | 0.0003 | 0.05         | 0.5           |             |                              |      |         |         |            |
| CBDa                | 0.0005 | 0.09    | 0.9     |            | Δ9-THC             | 0.0005 | 0.75         | 7.5           |             |                              |      |         |         |            |
| CBGa                | 0.0005 | 1.50    | 15.0    |            | Δ8-THC             | 0.0003 | 0.04         | 0.4           |             |                              |      |         |         |            |
| CBG                 | 0.0005 | <LOQ    | <LOQ    |            | Δ10-THC*           | 0.0002 | 0.18         | 1.8           |             |                              |      |         |         |            |
| CBD                 | 0.0005 | <LOQ    | <LOQ    |            | CBL                | 0.0005 | <LOQ         | <LOQ          |             |                              |      |         |         |            |
| THCV                | 0.0003 | <LOQ    | <LOQ    |            | CBC                | 0.0003 | <LOQ         | <LOQ          |             |                              |      |         |         |            |
| CBLV                | 0.0003 | 0.05    | 0.5     |            | THCa               | 0.0005 | 29.88        | 298.8         |             |                              |      |         |         |            |
| CBV                 | 0.0003 | <LOQ    | <LOQ    |            | CBCa               | 0.0006 | 0.28         | 2.8           |             |                              |      |         |         |            |
| THCVa               | 0.0003 | 0.25    | 2.5     |            | CBLa               | 0.0005 | <LOQ         | <LOQ          |             |                              |      |         |         |            |
| CBN                 | 0.0005 | <LOQ    | <LOQ    |            | <b>Total THC</b>   |        | <b>26.95</b> | <b>269.52</b> |             |                              |      |         |         |            |
|                     |        |         |         |            | <b>Total CBD</b>   |        | <b>0.08</b>  | <b>0.78</b>   |             |                              |      |         |         |            |
|                     |        |         |         |            | <b>Total</b>       |        | <b>33.07</b> | <b>330.69</b> | <b>0.00</b> |                              |      |         |         |            |

Analyst: 056

Cannabinoids Methodology: High Performance Liquid Chromatography (HPLC) using PerkinElmer FLEXAR™ with Photo Diode Array Detector (PDA)

Total CBD and total THC are calculated values, to account for assumed decarboxylation from the acid form (THCA or CBDA) to the neutral form, causing weight loss of the acid group. These values are calculated as follows:

$$\text{Total THC} = (\text{THCA} \times 0.877) + \Delta 9\text{-THC}$$

$$\text{Total CBD} = (\text{CBDA} \times 0.877) + \text{CBD Reagent}$$

Blanks: &lt; LOQs for all analytes

LOQ = The lowest quantity that this method can reliably detect. Any cannabinoid that was not detected is assumed to be less than the stated LOQ (&lt;LOQ).

All results reflect dry weight of material, based on % moisture of the sample.

Measurement of Uncertainty (MU): the parameter, associated with the result of a measurement, that characterizes the dispersion of the values that could reasonably be attributed to the particular quantity subject to measurement. Δ9-THC MU = ±0.005% Total THC MU = ±0.007%

All other cannabinoid MU values are available upon request.

All moisture and water activity analysis is determined by dewpoint measurement using an AQUALAB water activity meter.

\*The result is the sum of delta-10 isomers.




Luke Emerson-Mason  
 Laboratory Director  
 12/24/2025

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## Terpenes

Completed

| Analyte             | LOQ   | Results       | Results      |
|---------------------|-------|---------------|--------------|
|                     | mg/g  | mg/g          | %            |
| β-Myrcene           | 0.010 | 2.947         | 0.295        |
| Ocimene             | 0.010 | 2.406         | 0.241        |
| β-Caryophyllene     | 0.010 | 1.423         | 0.142        |
| α-Pinene            | 0.010 | 1.139         | 0.114        |
| Limonene            | 0.010 | 0.774         | 0.077        |
| Linalool            | 0.010 | 0.709         | 0.071        |
| α-Humulene          | 0.010 | 0.700         | 0.070        |
| β-Pinene            | 0.010 | 0.537         | 0.054        |
| 3-Carene            | 0.010 | 0.063         | 0.006        |
| Eucalyptol          | 0.010 | 0.034         | 0.003        |
| Terpinolene         | 0.010 | 0.025         | 0.002        |
| α-Terpinene         | 0.010 | 0.019         | 0.002        |
| γ-Terpinene         | 0.010 | 0.013         | 0.001        |
| Camphene            | 0.010 | 0.013         | 0.001        |
| α-Bisabolol         | 0.010 | <LOQ          | <LOQ         |
| Caryophyllene Oxide | 0.010 | <LOQ          | <LOQ         |
| cis-Nerolidol       | 0.010 | <LOQ          | <LOQ         |
| Geraniol            | 0.010 | <LOQ          | <LOQ         |
| Guaiol              | 0.010 | <LOQ          | <LOQ         |
| Isopulegol          | 0.010 | <LOQ          | <LOQ         |
| p-Cymene            | 0.010 | <LOQ          | <LOQ         |
| trans-Nerolidol     | 0.010 | <LOQ          | <LOQ         |
| <b>Total</b>        |       | <b>10.801</b> | <b>1.080</b> |

## Primary Aromas

|   |   |   |   |   |
|---|---|---|---|---|
| <br>Hops | <br>Earthy | <br>Cinnamon | <br>Pine | <br>Orange |
|---|---|---|---|---|

Analyst: 052

LOQ = The lowest quantity this method can reliably detect. Any terpene that was not detected is assumed to be less than the stated LOQ (&lt;LOQ).

Terpene Methodology: Headspace Sampler, Gas Chromatography-Mass Spectrometry (GC-MS), using Perkin Elmer Clarus® SQ8 GC MS

Reagent Blanks: &lt; LOQs for all analytes

All results reflect dry weight of material, based on % moisture of the sample.

All moisture and water activity analysis is determined by dewpoint measurement using an AQUALAB water activity meter.




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 Laboratory Director  
 12/24/2025

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## Pesticides

Completed

| Category 1 Pesticides | LOD     | LOQ    | Results |
|-----------------------|---------|--------|---------|
|                       | PPM     | PPM    | PPM     |
| Chlorpyrifos          | 0.0003  | 0.0010 | ND      |
| Imazalil              | 0.0003  | 0.0010 | ND      |
| Category 2 Pesticides | LOD     | LOQ    | Results |
|                       | PPM     | PPM    | PPM     |
| Abamectin             | 0.0003  | 0.0010 | ND      |
| Acephate              | 0.001   | 0.0050 | ND      |
| Acequinocyl           | 0.0003  | 0.0010 | ND      |
| Azoxystrobin          | 0.00005 | 0.0010 | ND      |
| Bifenazate            | 0.0001  | 0.0010 | ND      |
| Bifenthrin            | 0.0001  | 0.0010 | ND      |
| Carbaryl              | 0.0001  | 0.0010 | ND      |
| Cypermethrin          | 0.001   | 0.0050 | ND      |
| Etoxazole             | 0.0001  | 0.0010 | ND      |
| Imidacloprid          | 0.00005 | 0.0010 | ND      |
| Myclobutanil          | 0.0001  | 0.0010 | ND      |
| Pyrethrins            | 0.001   | 0.0050 | ND      |
| Spinosyn A            | 0.0001  | 0.0010 | ND      |
| Spinosyn D            | 0.0003  | 0.0010 | ND      |

Analyst: 056

Pesticides Methodology: Liquid Chromatography with Tandem Mass Spectrometry using PerkinElme QSight® LX50 UHPLC and QSight 220 Mass Spectrometer

LOQ = The lowest quantity this method can reliably quantify. Any pesticides or mycotoxins that were not quantifiable are less than the stated LOQ (<LOQ).

ppm = parts per million

All moisture and water activity analysis is determined by dewpoint measurement using an AQUALAB water activity meter.

ND = Not Detected (<LOD)




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## Pathogens

Completed

| Pathogens           | LOD   | Results      |
|---------------------|-------|--------------|
|                     | CFU/g | CFU/g        |
| Aspergillus         | 5     | Not Detected |
| Shiga Toxin E. Coli | 5     | Not Detected |
| Salmonella SPP      | 5     | Not Detected |

Analyst: 018

Test Methodology: Bio-Rad IQ-Check PCR Kits

cfu/g = colony forming units per gram

LOD = The lowest quantity that this method can reliably detect. Any microbial growth that was not detected is assumed to be less than the stated LOD (&lt;LOD).

Reagent Blanks: &lt;LOD for all analytes

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