

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

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: < 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 (<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. $\Delta 9\text{-THC MU} = \pm 0.005\%$ $\text{Total THC MU} = \pm 0.007\%$

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

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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
Total		10.801	1.080

Primary Aromas



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 (<LOQ).

Terpene Methodology: Headspace Sampler, Gas Chromatography-Mass Spectrometry (GC-MS), using Perkin Elmer Clarus® SQ8 GC MS
 Reagent Blanks: < LOQs for all analytes

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

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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

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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 (<LOD).

Reagent Blanks: <LOD for all analytes



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