

## Crescendo

Sample ID: BIA251201S0045  
 Strain: HL-14  
 Harvest Lot:  
 Matrix: Plant  
 Type: Flower - Cured  
 Sample Size: 5 g  
 Lot#:

Produced:  
 Collected:  
 Received: 12/03/2025  
 Completed: 12/12/2025  
 Batch#:

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



### Summary

Test	Date Tested	Result
Sample		Complete
Cannabinoids	12/11/2025	Complete
Moisture	12/07/2025	8.10% - Complete
Water Activity	12/07/2025	0.353 aw - Complete
Terpenes	12/08/2025	Complete
Microbials	12/10/2025	Complete

### Cannabinoids

Completed

26.05%

Total THC

0.07%

Total CBD

31.62%

Total Cannabinoids

Analyte	LOQ	Results	Results	Mass	Analyte	LOQ	Results	Results	Mass
	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	<LOQ	<LOQ	
CBDa	0.0005	0.08	0.8		Δ9-THC	0.0005	0.32	3.2	
CBGa	0.0005	1.08	10.8		Δ8-THC	0.0003	<LOQ	<LOQ	
CBG	0.0005	0.20	2.0		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	0.10	1.0		THCa	0.0005	29.34	293.4	
CBCV	0.0003	<LOQ	<LOQ		CBCa	0.0006	0.22	2.2	
THCVA	0.0003	0.11	1.1		CBLa	0.0005	<LOQ	<LOQ	
CBN	0.0005	<LOQ	<LOQ		<b>Total THC</b>		<b>26.05</b>	<b>260.47</b>	
					<b>Total CBD</b>		<b>0.07</b>	<b>0.73</b>	
					<b>Total</b>		<b>31.62</b>	<b>316.23</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).

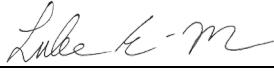
All results reflect dry weight of material, based on % moisture of the sample.

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

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  
 12/12/2025

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### Terpenes

Completed

Analyte	LOQ	Results	Results
	mg/g	mg/g	%
Ocimene	0.010	2.963	0.296
Limonene	0.010	2.893	0.289
β-Caryophyllene	0.010	2.409	0.241
β-Myrcene	0.010	2.277	0.228
β-Pinene	0.010	1.449	0.145
α-Pinene	0.010	1.339	0.134
α-Humulene	0.010	1.013	0.101
Linalool	0.010	0.761	0.076
Camphehe	0.010	0.163	0.016
Terpinolene	0.010	0.156	0.016
Isopulegol	0.010	0.049	0.005
α-Bisabolol	0.010	0.038	0.004
γ-Terpinene	0.010	0.017	0.002
α-Terpinene	0.010	0.015	0.001
Geraniol	0.010	0.013	0.001
3-Carene	0.010	<LOQ	<LOQ
Caryophyllene Oxide	0.010	<LOQ	<LOQ
cis-Nerolidol	0.010	<LOQ	<LOQ
Eucalyptol	0.010	<LOQ	<LOQ
Guaiol	0.010	<LOQ	<LOQ
p-Cymene	0.010	<LOQ	<LOQ
trans-Nerolidol	0.010	<LOQ	<LOQ
<b>Total</b>		<b>15.556</b>	<b>1.556</b>

### Primary Aromas



Analyst: 052

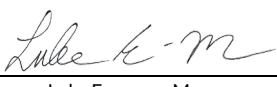
LOQ = The lowest quantity this method can reliably detect. Any terpene that was not detected is assumed to be less than the stated LOQ (<LOQ).

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.

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



  
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 Laboratory Director  
 12/12/2025

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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

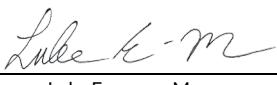
Analyst: 018

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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 12/12/2025

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