

## HL-SCLT0149-13

 Sample ID: BIA240503S0007  
 Strain: Kush Cake

 Matrix: Plant  
 Type: Flower - Cured  
 Sample Size: 12.2 g  
 Lot#:

 Produced:  
 Collected:  
 Received: 05/03/2024  
 Completed: 05/10/2024  
 Batch#:

 Client  
**VTGRN**  
 Lic. # SCLT0149  
 40 Outlook Way  
 Starksboro, VT 05487


### Summary

Test	Date Tested	Result
Sample		Complete
Cannabinoids	05/08/2024	Complete
Moisture	05/06/2024	10.10% - Complete
Water Activity	05/06/2024	0.470 aw - Complete
Terpenes	05/06/2024	Complete
Microbials	05/09/2024	Complete
Pesticides	05/08/2024	Complete

### Cannabinoids

Completed

24.16%		0.05%		28.98%	
Total THC		Total CBD		Total Cannabinoids	
Analyte	LOQ	Results	Results	Mass	
	mg/g	%	mg/g	mg/serving	
CBDVa	0.0005	<LOQ	<LOQ		
CBDV	0.0012	<LOQ	<LOQ		
CBDa	0.0008	0.06	0.6		
CBGa	0.0008	1.33	13.3		
CBG	0.0019	0.05	0.5		
CBD	0.0019	<LOQ	<LOQ		
THCV	0.0021	<LOQ	<LOQ		
CBN	0.0013	<LOQ	<LOQ		
Δ9-THC	0.0020	0.13	1.3		
Δ8-THC	0.0019	<LOQ	<LOQ		
THCa	0.0034	27.41	274.1		
CBC	0.0024	<LOQ	<LOQ		
<b>Total THC</b>		<b>24.16</b>	<b>241.65</b>		
<b>Total CBD</b>		<b>0.05</b>	<b>0.51</b>		
<b>Total</b>		<b>28.98</b>	<b>289.77</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 analysis is determined by loss-on-drying measurement using OHAUS Model MB90 Moisture Content Readers.




 Luke Emerson-Mason  
 Laboratory Director  
 05/10/2024

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### Terpenes

Completed

Analyte	LOQ	Results	Results
	mg/g	mg/g	%
Limonene	0.010	6.315	0.632
β-Caryophyllene	0.010	6.214	0.621
Linalool	0.010	3.181	0.318
α-Humulene	0.010	2.306	0.231
β-Pinene	0.010	1.486	0.149
α-Pinene	0.010	0.780	0.078
β-Myrcene	0.010	0.374	0.037
Camphene	0.010	0.239	0.024
α-Bisabolol	0.010	0.090	0.009
Terpinolene	0.010	0.089	0.009
Caryophyllene Oxide	0.010	0.043	0.004
Eucalyptol	0.010	0.012	0.001
3-Carene	0.010	<LOQ	<LOQ
α-Terpinene	0.010	<LOQ	<LOQ
cis-Nerolidol	0.010	<LOQ	<LOQ
γ-Terpinene	0.010	<LOQ	<LOQ
Geraniol	0.010	<LOQ	<LOQ
Guaiol	0.010	<LOQ	<LOQ
Isopulegol	0.010	<LOQ	<LOQ
Ocimene	0.010	<LOQ	<LOQ
p-Cymene	0.010	<LOQ	<LOQ
trans-Nerolidol	0.010	<LOQ	<LOQ
<b>Total</b>		<b>21.130</b>	<b>2.113</b>

### Primary Aromas

 Orange	 Cinnamon	 Lavender	 Hops	 Pine
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Analyst: 045

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 analysis is determined by loss-on-drying measurement using OHAUS Model MB90 Moisture Content Readers.




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 05/10/2024

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### Pesticides

Completed

Category 1 Pesticides	LOQ	Results
	PPM	PPM
Chlorpyrifos	0.0010	<LOQ
Imazalil	0.0010	<LOQ
Category 2 Pesticides	LOQ	Results
	PPM	PPM
Abamectin	0.0100	<LOQ
Acephate	0.0010	<LOQ
Acequinocyl	0.0010	<LOQ
Azoxystrobin	0.0010	<LOQ
Bifenazate	0.0010	<LOQ
Bifenthrin	0.0010	<LOQ
Carbaryl	0.0010	<LOQ
Cypermethrin	0.0100	<LOQ
Etoazole	0.0010	<LOQ
Imidacloprid	0.0010	<LOQ
Myclobutanil	0.0010	<LOQ
Spinosyn A	0.0010	<LOQ
Spinosyn D	0.0010	<LOQ

Analyst: 045

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 detect. Any pesticide or mycotoxins that was not detected is assumed to be less than the stated LOQ (&lt;LOQ).

ppm = parts per million

All moisture analysis is determined by loss-on-drying measurement using OHAUS Model MB90 Moisture Content Readers.




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### Pathogens

Completed

Pathogens	LOD	Results
	CFU/g	CFU/g
Aspergillus	5	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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