Bia Diagnostics Laboratories

Bia Diagnostics
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Colchester, VT 05446

(802) 540-0148
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Lic# TLAB0029

HL-SCLT0149-14

Sample ID: BIA240705S0001
Strain: Mac and Cheese

Matrix: Plant
Type: Flower - Cured
Sample Size: 5 g
Lot#:

Produced:
Collected:
Received: 07/08/2024
Completed: 07/18/2024
Batch#:

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

Summary

Test	Date Tested	Result
Sample		Complete
Cannabinoids	07/10/2024	Complete
Moisture	07/10/2024	10.80% - Complete
Water Activity	07/10/2024	0.536 aw - Complete
Terpenes	07/10/2024	Complete
Microbials	07/18/2024	Complete
Pesticides	07/15/2024	Complete

Cannabinoids

Completed

22.66% Total THC	0.06% Total CBD	26.60% 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	0.07	0.7	
CBGa	0.0008	0.70	7.0	
CBG	0.0019	0.06	0.6	
CBD	0.0019	<LOQ	<LOQ	
THCV	0.0021	<LOQ	<LOQ	
CBN	0.0013	<LOQ	<LOQ	
Δ9-THC	0.0020	0.88	8.8	
Δ8-THC	0.0019	<LOQ	<LOQ	
Δ10-THC	0.0002	0.06	0.6	
CBC	0.0024	<LOQ	<LOQ	
THCa	0.0034	24.84	248.4	
Total THC		**22.66**	**226.62**	
Total CBD		**0.06**	**0.57**	
Total		**26.60**	**266.00**	**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:
TotalTHC=(THCAx0.877)+Δ9-THC
Total CBD = (CBDA x 0.877) + 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. 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
07/18/2024

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Terpenes

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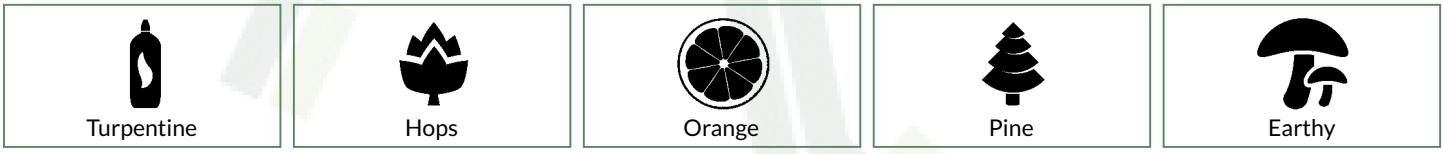
Analyte	LOQ	Results	Results
	mg/g	mg/g	%
Terpinolene	0.010	9.002	0.900
β-Myrcene	0.010	3.816	0.382
Limonene	0.010	3.268	0.327
β-Pinene	0.010	2.755	0.275
Ocimene	0.010	2.478	0.248
3-Carene	0.010	1.618	0.162
α-Pinene	0.010	1.437	0.144
β-Caryophyllene	0.010	1.377	0.138
Linalool	0.010	1.172	0.117
α-Terpinene	0.010	0.571	0.057
α-Humulene	0.010	0.440	0.044
γ-Terpinene	0.010	0.416	0.042
Geraniol	0.010	0.181	0.018
Eucalyptol	0.010	0.154	0.015
Guaiol	0.010	0.130	0.013
Camphene	0.010	0.090	0.009
α-Bisabolol	0.010	0.061	0.006
Caryophyllene Oxide	0.010	0.023	0.002
cis-Nerolidol	0.010	<LOQ	<LOQ
Isopulegol	0.010	<LOQ	<LOQ
p-Cymene	0.010	<LOQ	<LOQ
trans-Nerolidol	0.010	<LOQ	<LOQ
Total		**28.987**	**2.899**

Primary Aromas



Analyst: 048
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 analysis is determined by loss-on-drying measurement using OHAUS Model MB90 Moisture Content Readers.

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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
Etoxazole	0.0010	<LOQ
Imidacloprid	0.0010	<LOQ
Myclobutanil	0.0010	<LOQ
Spinosyn A	0.0010	<LOQ
Spinosyn D	0.0010	<LOQ

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

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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 (<LOD).
Reagent Blanks: <LOD for all analytes

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Laboratory Director
07/18/2024