Bia Diagnostics Laboratories

Bia Diagnostics
480 Hercules Drive Suite 101
Colchester, VT 05446

(802) 540-0148
https://www.biadiagnostics.com/
Lic#

Chem de la Chem

Sample ID: BIA240430S0029
Strain: intg0003-cdlc-fbm

Matrix: Plant
Type: Flower - Cured
Sample Size: 13.9 g
Lot#:

Produced:
Collected:
Received: 04/30/2024
Completed: 05/09/2024
Batch#:

Client
Grassroots Vermont
Lic. # intg0003
84 Lover's Lane
Brandon, VT 05733

Summary

Test	Date Tested	Result
Sample		Complete
Cannabinoids	05/02/2024	Complete
Moisture	05/01/2024	12.10% - Complete
Water Activity	05/01/2024	0.485 aw - Complete
Terpenes	05/02/2024	Complete
Microbials	05/09/2024	Complete
Pesticides	05/03/2024	Complete

Cannabinoids

Completed

20.14% Total THC	0.06% Total CBD	23.48% 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	0.48	4.8	
CBG	0.0019	0.10	1.0	
CBD	0.0019	<LOQ	<LOQ	
THCV	0.0021	<LOQ	<LOQ	
CBN	0.0013	<LOQ	<LOQ	
Δ9-THC	0.0020	0.95	9.5	
Δ8-THC	0.0019	<LOQ	<LOQ	
THCa	0.0034	21.89	218.9	
CBC	0.0024	<LOQ	<LOQ	
Total THC		**20.14**	**201.40**	
Total CBD		**0.06**	**0.63**	
Total		**23.48**	**234.80**	**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
05/09/2024

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Terpenes

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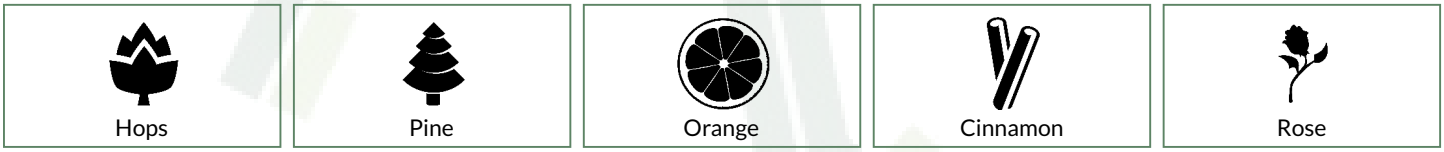
Analyte	LOQ	Results	Results
	mg/g	mg/g	%
β-Myrcene	0.010	14.460	1.446
α-Pinene	0.010	5.147	0.515
Limonene	0.010	3.698	0.370
β-Pinene	0.010	3.321	0.332
β-Caryophyllene	0.010	1.833	0.183
α-Humulene	0.010	0.737	0.074
Geraniol	0.010	0.162	0.016
Camphene	0.010	0.117	0.012
Linalool	0.010	0.092	0.009
α-Bisabolol	0.010	0.060	0.006
Terpinolene	0.010	0.051	0.005
Eucalyptol	0.010	0.051	0.005
γ-Terpinene	0.010	0.024	0.002
Caryophyllene Oxide	0.010	0.021	0.002
3-Carene	0.010	<LOQ	<LOQ
α-Terpinene	0.010	<LOQ	<LOQ
cis-Nerolidol	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
Total		**29.773**	**2.977**

Primary Aromas



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 (<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: 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 (<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	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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Laboratory Director
05/09/2024