Bia Diagnostics Laboratories

Bia Diagnostics
480 Hercules Drive Suite 101
Colchester, VT 05446

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

CLTV0238-4113-2

Sample ID: BIA240519S0002
Strain: Gelato 42

Matrix: Plant
Type: Flower - Cured
Sample Size: 4 g
Lot#:

Produced:
Collected:
Received: 05/20/2024
Completed: 05/23/2024
Batch#:

Client
Emerald Visions
Lic. # CLTV0238
2348 Vt Rt 78
Alburgh, VT 05440

Summary

Test	Date Tested	Result
Sample		Complete
Cannabinoids	05/22/2024	Complete
Moisture	05/21/2024	11.00% - Complete
Water Activity	05/21/2024	0.548 aw - Complete
Terpenes	05/21/2024	Complete

Cannabinoids

Completed

16.71% Total THC	0.04% Total CBD	19.77% 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	0.05	0.5	
CBGa	0.0008	0.75	7.5	
CBG	0.0019	0.04	0.4	
CBD	0.0019	<LOQ	<LOQ	
THCV	0.0021	<LOQ	<LOQ	
CBN	0.0013	<LOQ	<LOQ	
Δ9-THC	0.0020	0.86	8.6	
Δ8-THC	0.0019	<LOQ	<LOQ	
THCa	0.0034	18.07	180.7	
CBC	0.0024	<LOQ	<LOQ	
Total THC		**16.71**	**167.08**	
Total CBD		**0.04**	**0.44**	
Total		**19.77**	**197.71**	**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
05/23/2024

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Terpenes

Completed

Analyte	LOQ	Results	Results
	mg/g	mg/g	%
Limonene	0.010	8.430	0.843
β-Myrcene	0.010	7.782	0.778
Ocimene	0.010	6.683	0.668
β-Caryophyllene	0.010	6.663	0.666
Linalool	0.010	4.204	0.420
α-Humulene	0.010	2.302	0.230
β-Pinene	0.010	2.236	0.224
α-Pinene	0.010	1.387	0.139
Terpinolene	0.010	0.345	0.035
Camphene	0.010	0.265	0.027
Geraniol	0.010	0.082	0.008
Caryophyllene Oxide	0.010	0.035	0.003
γ-Terpinene	0.010	0.024	0.002
α-Bisabolol	0.010	0.024	0.002
3-Carene	0.010	<LOQ	<LOQ
α-Terpinene	0.010	<LOQ	<LOQ
cis-Nerolidol	0.010	<LOQ	<LOQ
Eucalyptol	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		**40.462**	**4.046**

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.

Luke Emerson-Mason
Laboratory Director
05/23/2024

Bia Diagnostics Laboratories

Office: 802-540-0148 | Fax: 802-540-0147
480 HERCULES DR. COLCHESTER, VT 05446

Certificate of Analysis

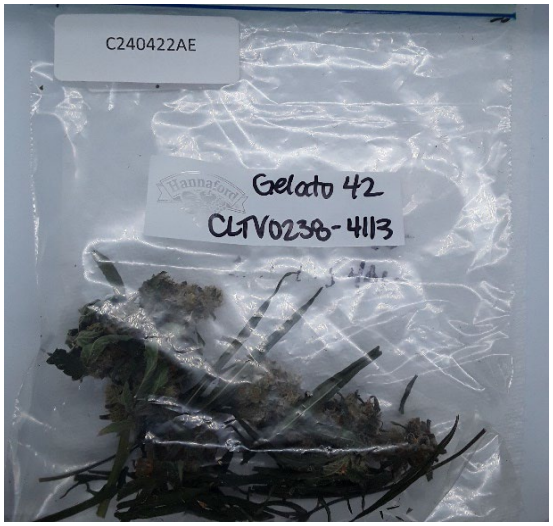
Company: Emerald Visions, LLC
Customer ID: 221019-3
Grower License #: CLTV0238

Sample ID: Gelato 42
Lot: CLTV0238-4113-2
Matrix: Flower
Date Sampled: N/A
Date Received: 4/22/2024

Report Date: 5/2/2024
Date Analyzed: 5/2/2024
Analyst: 018
Report ID: C240422AE

Pathogen Summary

Target Pathogens	Method	LOD (cfu/g)	Result (cfu/g)
Aspergillus - flavus, fumigatus, niger, terreus	Aspergillus AOAC PTM No. 032104	5	< LOD
STEC	STEC Virx AOAC PTM No. 121203	5	< LOD
Salmonella spp.	Salmonella II AOAC PTM No. 010803	5	< LOD



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

Certified by: Luke E. M
Luke Emerson Mason (Laboratory Director, Bia Diagnostics)

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CLTV0238-4113

Sample ID: BIA240519S0004
Strain: PS, G42, AF

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

Produced:
Collected:
Received: 05/20/2024
Completed: 05/23/2024
Batch#:

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2348 Vt Rt 78
Alburgh, VT 05440

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.

Luke Emerson-Mason
Laboratory Director
05/23/2024