

Sample Name

Lemon Pound Cake

Sample ID

ELC-22-001

Laboratory ID

PAT28001

Method Ref.

5991-9285EN

Sample Receiving Date

06-Sep-2022

Receiving Temperature 21°C

Analysis Date

08-Sep-2022

Cannabinoids Profile

Compounds	Results (%w/w)	Results (mg/g)	LOQ(%)
CBC	0.014	0.140	0.010
CBD	<0.010	<0.100	0.010
CBDA	0.071	0.710	0.010
CBDV	<0.010	<0.100	0.010
CBG	0.017	0.170	0.010
CBGA	0.230	2.300	0.010
CBN	0.009	0.090	0,010
D8-THC	<0.010	<0.100	0.010
D9-THC	1.073	10.730	0.010
THCA-A	26,005	260.050	0,010
тнсу	<0.010	<0.100	0.010
Total THC	23.879	238.794	
Total CBD	0.062	0.623	

23.879%

Total THC

0.062% Total CBD

Total THC = THC + (THCA*0.877), Total CBD = CBD + (CBDA*0.877) Total THC/CBD is calculated using the formulas to take into account the loss of carboxyl group during decarboxylation step

Authorized by: Laboratory Manager

Signature:



Details of testing

- 1. LOQ- Limit of quantification
- 2. % w/w: percent (weight of analyte/ weight of product)
- 3. Results only apply to the items tested and to the sample(s) as received.
- 4. This report may not be distributed or reproduced except in full

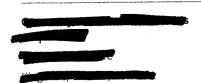




CERTIFICATE OF ANALYSIS

Client information

COA information



COA number

220912_29050_PAR7932

COA Date

12-Sep-2022

Analysis Request ID

PAR7932

Sample information

Sample Name

Lemon Pound Cake

Sample ID

ELC-22-001

Laboratory ID Method Ref.

PAT27998 **USP561**

Sample Receiving Date

06-Sep-2022

Receiving Temperature 21°C

Analysis Date

06-Sep-2022

Results Information

Foreign Material	Results	Unit	LOQ
Grey Mold and Bud Rot	0	/g	N/A
Insect and Vermin	0	/g	N/A
Other Extraneous	0	/g	N/A
substances			
Spider Mite	0	/g	N/A
Stalks	0	/g	

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Sample Name

Lemon Pound Cake

Sample ID

ELC-22-001

Laboratory ID

PAT27998

Method Ref.

PAT-SOP106, USP233

Sample Receiving Date 06-Sep-2022

Receiving Temperature 21°C

Analysis Date

09-Sep-2022

Results Information

Heavy Metals	Results	Unit	Specification (USP 232(Inhalation Limits))	Compliance	Loq
Arsenic	<0.025	ppm	<=0.2	PASS	0.025
Cadmium	<0.020	ppm	<= 0.3	PASS	0.02
Lead	0.011	ppm	<= 0.5	PASS	0.01
Mercury	<0.005	ppm	<= 0.1	PASS	0.005

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Sample Name

Lemon Pound Cake

Sample ID

ELC-22-001

Laboratory ID

PAT27998

Method Ref.

AOAC 2007.01

Sample Receiving Date 06-Sep-2022

Receiving Temperature 21°C

Analysis Date

12-Sep-2022

Results Information

Aflatoxins	Results	Unit	Specification (EP 2.8.18)	Compliance	LOQ
Aflatoxin B1	<0.002	ppm	<= 0.002	PASS	0.002
Aflatoxin B2	<0.002	ppm	<= 0,002	PASS	0.002
Aflatoxin G1	<0.002	ppm	<= 0.002	PASS	0.002
Aflatoxin G2	<0.002	ppm	<= 0.002	PASS	0.002
Total Aflatoxins (B1,B2,G1,G2)	<0.002	ррт	<= 0.004	PASS	0.002

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Signature:



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Sample Name

Lemon Pound Cake

Sample ID

ELC-22-001

Laboratory ID

PAT27998

Method Ref.

AOAC 2007.01

Sample Receiving Date

06-Sep-2022

Receiving Temperature 21°C

Analysis Date

12-Sep-2022

Pesticides Dried Cannabis Results Information

Compound Detected

Results (ppm)

RDL

Specification (HC MRL Limits)

Compliance

No Compounds Detected

Results (ppm) RDL		Specification (HC MRL Limits)		
ND	0.02	< 0.1		
	0.02	< 0.02		
	0.02	< 0.03		
	0.02	< 0.1		
	0.02	<1		
	0.02	< 0.2		
	0.02	< 1		
	0.01	< 0.02		
	0.01	< 0.02		
	0.02	< 0.02		
		< 1		
	0.01	< 0.02		
	0.01	< 0.02		
	0.02	< 0.05		
	0.01	< 0.02		
		< 0.02		
		< 0.05		
		< 0.04		
		< 0.02		
		< 0.05		
		< 0.02		
		< 0.02		
		< 0.2		
		< 0.3		
		< 0.25		
		< 0.1		
		< 0.5		
		< 0.02		
		< 0.1		
		< 0.02		
		< 0.05		
		< 0.1		
		< 0.05		
		< 0.05		
		< 0.2		
		< 0.05		
		< 0.02		
		< 0.05		
	Results (ppm) ND ND ND ND ND ND ND ND ND N	ND 0.02 ND 0.01 ND 0.01 ND 0.02 ND 0.01 ND 0.05 ND 0.01 ND 0.01 ND 0.05 ND 0.01 ND 0.01 ND 0.02 ND 0.01 ND 0.01 ND 0.02 ND 0.01 ND 0.02 ND 0.01 ND 0.01 ND 0.02 ND 0.01 ND 0.01 ND 0.02 ND 0.01 ND 0.02 ND 0.01 ND 0.02 ND 0.02 ND 0.02 ND 0.02 ND 0.02 ND 0.002 ND 0.001 ND 0.002 ND 0.001 ND 0.002 ND 0.001 ND 0.002 ND 0.002 ND 0.001 ND 0.002 ND 0.001 ND 0.002		



Results (ppm)	RDL	(HC MRL Limits)
ND	0.01	< 0.02
		< 0.03
		< 0.02
		< 0.02
		< 0.02
		< 0.02
		< 0.1
		< 0.06
		< 0.05
		< 0.02
		< 0.02
		< 0.01
		< 0.05
		< 0.02
		<1
		< 0.5
		< 0.02
	*	< 0.02
		< 0.02
		< 0.02
		< 0.05
		<2
		< 0.05
		< 0.05
		< 0.02
		< 0.1
		< 0.05
		<3
		< 0.02
		< 0.05
		< 0.5
		< 0.05
		< 0.02
		< 0.2
		< 0.02
		< 0.05
		< 0.1
		< 0.02
		< 0.02
		< 0.05
		< 0.05
		< 0.02
		< 0.1
		< 0.02
		< 0.1
		< 0.25
		<3
		< 0.02
		< 0.1
		< 0.05
		< 0.02
		< 0.05
ND	0.02 0.01	< 0.05
	ND N	ND 0.01 ND 0.01 ND 0.02 ND 0.05 ND 0.01 ND 0.05 ND 0.01 ND 0.02 ND 0.01 ND 0.05 ND 0.01 ND 0.05 ND 0.01 ND 0.05 ND 0.01 ND 0.05 ND 0.05 ND 0.01 ND 0.05 ND 0.01 ND 0.05 ND 0.01 ND 0.02 ND 0.01 ND 0.02 ND 0.01 ND 0.02 ND 0.02 ND 0.01 ND 0.02



Compounds Not	Results (ppm)	RDL	Specification (HC MRL Limits)
Tetramethrin	ND	0.02	< 0.1
Thiacloprid	ND	0.01	< 0.02
Thiamethoxam	ND	0.01	< 0.02
Thiophanate-methyl	ND .	0.02	< 0.05
Trifloxystrobin	ND	0.01	< 0.02

Authorized by: Laboratory Manager

Signature:



Details of testing

- 1. ppm (w/w): parts per million by weight, MRL: Maximum residue limits, RDL: Reporting detection limits
- 2. The compounds are ND (not detected) at or above the RDL
- 3. Health Canada and/or United States MRL are taken from Health Canada & Global MRL Database (where applicable) on the date of COA preparation
- 4. Results only apply to the items tested and to the sample(s) as received.
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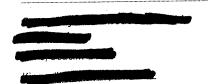




CERTIFICATE OF ANALYSIS

Client information

COA information



COA number

220912_29022_PAR7932

COA Date

12-Sep-2022

Analysis Request ID

PAR7932

Sample information

Sample Name

Lemon Pound Cake

Sample ID

ELC-22-001

Laboratory ID

PAT27998

Sample Receiving Date

06-Sep-2022

Receiving Temperature

21°C

Results information

Analysis Date	Test	Method Ref.	Results	Units	Specification (EP 5.1.8 Microbiology)	Compliance
12-Sep-2022	Bile-Tolerant Gram Negative Bacteria	EP 2.6.13	≼10	MPN/g	<≐10000	PASS
Analysis Date	Test	Method Ref.	Results	Units	Specification (EP 5.1.8 Microbiology)	Compliance
12-Sep-2022	Salmonella spp.	EP 2,6.13	Negative	/25g	Negative	PASS
12-Sep-2022	Escherichia coli	EP 2.6.13	Negative	/g	Negative	PASS
12-Sep-2022	Aerobic Microbial Count	EP 2,6,12	<10	CFU/g	<= 500000	PASS
12-Sep-2022	Yeast and Mold Count	EP 2.6.12	<10	CFU/g	<≅ 50000	PASS

Authorized by: Laboratory Manager

Signature:

Details of testing

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HIGH NORTH ID: 00235455

Date: 2022-09-12

Certificate: 1663016815



High North Inc. 241 Hanlan Rd, Unit 7 Woodbridge, ON, L4L 3R7 1-416-864-6119 LIC-P4PNJMAC20-2022

Client:

Name:

Lot: Matrix:

Sub-matrix: Sampled: Received: Lemon Pound Cake

ELC-22-001

Flower

Dried Flower 2022-09-07 2022-09-08

Certificate of Analysis

Terpene Analysis	LOD (%)	LOQ (%)	wt%
Trans-Caryophyllene	0.0002	0.005	0.36
Terpinolene	0.0003	0.005	0.339
(R)-(+)-Limonene	0.0001	0.005	0.211
Beta-Myrcene	0.0003	0.005	0.17
Farnesene*	0.0009	0.005	0.168
Alpha-Humulene	0.0010	0.005	0.099
Terpineol*	0.0001	0.005	0.076
Alpha-Pinene	0.0003	0.005	0.074
Beta-Pinene	0.0002	0.005	0.067
(R)-Endo-(+)-Fenchyl	0.0003	0.005	0.045
Guaiol	0.0003	0.005	0.033
Linalool	0.0003	0.005	0.023
alpha-Bisabolol	0.0003	0.005	0.02
Caryophyllene oxide	0.0008	0.005	0.017
Alpha-Phellandrene	0.0002	0.005	0.016
(1S)-3-Carene	0.0007	0.005	0.014
trans-Nerolidol	0.0004	0.005	0.013
Alpha-Terpinene	0.0003	0.005	0.011
Gamma-Terpinene	0.0003	0.005	0.01
Ocimene*	0.0004	0.005	0.01

Abbreviations: wt% = percentage of weight, CFU = colony forming units, ppm = Parts per million, ppb = Parts per billion, ND = None Detected, BLQ = Below Limit of Quantification, LOQ = Limit of Quantification, LOD = Limit of Detection, RL = Reporting Limit, * = Mixture of Isomers

Authorized by:



Terpene Analysis	LOD (%)	LOQ (%)	wt%	
Sabinene	0.0013	0.005	0.007	
Camphene	0.0002	0.005	0.007	
Geraniol	0.0007	0.005	BLQ	
Citronellol	0.0003	0.005	BLQ	
Fenchone*	0.0003	0.005	BLQ	
Phytol*	0.0013	0.010	ND	
(+)-Cedrol	0.0010	0.005	ND	
Valencene	0.0002	0.005	ND	
cis-Nerolidol	0.0003	0.005	ND	
Eugenol	0.0004	0.010	ND	
Alpha-Cedrene	0.0002	0.005	ND	
Pulegone	0.0002	0.005	ND	
Geranyl acetate	0.0002	0.005	ND	
Nerol	0.0002	0.005	ND	
Isoborneol	0.0002	0.005	ND	
Camphor + Borneol*	0.0003	0.010	ND	
Isopulegol	0.0004	0.005	ND	
Hexahydrothymol	0.0005	0.005	ND	
Sabinene Hydrate	0.0001	0.005	ND	
p-Cymene	0.0003	0.005	ND	
Eucalyptol	0.0007	0.005	ND	
			1.790	
Total of all quantified terpenes:			1.790	

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Details of Testing

Cannabinoid Analysis

Analysis of 11 Cannabinoids by HPLC & UHPLC

Method LAB-MTD-020: Flower (LOQ 0.06%), Oil (LOQ 0.03%), Concentrates (LOQ 0.6%)

Method LAB-MTD-021: Isolates (LOQ 0.06%)

Method LAB-MTD-023: Tablets & Granules (LOQ 0.025%)

Method LAB-MTD-030: Topicals (LOQ 0.005%)

Method LAB-MTD-039: Determination of 5 Cannabinoids in Cannabis Edibles; Liquid Edibles (LOQ

0.0002%) and Solid Edibles (LOQ 0.005%)

Terpene Analysis

Profile of 42 terpenes by GC/MS

Method LAB-MTD-035: Cannabis Flower, Oil

Pesticide Analysis

Determination of 96 Pesticide Residues by LC/MS/MS and GC/MS/MS

Method LAB-MTD-010: Cannabis Flower, Oil

Method LAB-MTD-040: Determination of EP Pesticide Residue in Cannabis Oil by GCMSMS

Method LAB-MTD-041: Determination of EP Pesticide Residues in Cannabis Flower and Related

Products by GCMSMS

Mycotoxin Analysis

Determination of Aflatoxins B1, B2, G1, G2 and Ochratoxin-A by LC/MS/MS

Method LAB-MTD-010: Cannabis Flower, Oil

Method LAB-MTD-029: Tablets Method LAB-MTD-037: Topicals

Heavy Metal Analysis

Determination of Heavy Metal contamination (Arsenic, Cadmium, Lead & Mercury) by ICP/MS Method LAB-MTD-027: Cannabis Flower, Oil, Topicals, Tablets

Residual Solvents Analysis

Determination of 24 Residual Solvents by GC/MS Method LAB-MTD-036: Cannabis Oil Method LAB-MTD-028: Tablets

Determination of Butane and Propane Residual Solvents in Cannabis Oil

Method LAB-MTD-034 (GC/MS): Cannabis Oil

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Authorized by:



Details of Testing

Microbial Analysis, Powdery Mildew & Gender Determination

Molecular detection and quantitation by PCR & qPCR Cannabis Flower, Oil, Cannabis-Infused Products
Method MIC-MTD-001 (TAMC, TYMC, BTGN, E.coli, Salmonella, Staph/Pseudomonas)
Method MIC-MTD-005: (Powdery Mildew & Gender Determination)
Method MIC-MTD-006: Determination of Viruses in Cannabis via qPCR and ELISA

Moisture Analysis

Water Activity & Moisture Content (Loss on Drying)
Method LAB-MTD-017 (Loss on Drying; Dry flower only)
Method LAB-MTD-031 (Water activity, a_w)

Foreign Matter Analysis

Visual/Magnified Inspection for Foreign Matter Method LAB-MTD-022

Total Ash Analysis

Method LAB-MTD-043: Total Ash by Muffle Furnace in Cannabis Products

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