HIGH NORTH ID: 00340675

Date: 2023-05-30

Certificate: 1685478638



High North Inc. 241 Hanlan Rd, Unit 7 Woodbridge, ON, L4L 3R7 1-416-864-6119 LIC-P4PN|MAC20-2022

Client: PINNRZ x Final Bell

3-1100 Bennett Road,

Bowmanville, ON, L1C 0Y7

Name: PINNRZ x Final Bell

6479688119

rlaw@finalbell.com

Product: Pinnrz Blue Lot: BB00941-MC-1

Matrix: Flower

Sub-matrix: Milled Flower Sampled: 2023-05-26 Received: 2023-05-26

Certificate of Analysis

Cannabinoid Analysis	LOD (%)	LOQ (%)	wt%	mg/g
Total THC [(THCA x 0.877) + D9-THC] Total CBD [(CBDA x 0.877) + CBD]			21.109 0.057	211.093 0.574
THCA-A	0.0090	0.06	22.345	223.452
D9-THC	0.0093	0.06	1.513	15.126
CBGA	0.0041	0.06	0.797	7.974
CBG	0.0094	0.06	0.197	1.974
CBDA	0.0100	0.06	0.065	0.654
CBC	0.0060	0.06	ND	ND
D8-THC	0.0137	0.06	ND	ND
CBN	0.0067	0.06	ND	ND
THCV	0.0093	0.06	ND	ND
CBD	0.0069	0.06	ND	ND
CBDV	0.0090	0.06	ND	ND
Total of all quantified cannabinoids:		24.918	249.180	
Moisture Analysis 8.4%				

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



Details of Testing

Cannabinoid Analysis

LAB-MTD-020: Determination of 11 Cannabinoids in Cannabis Flower (LOQ 0.06%), Fresh Flower (LOQ 0.015%), Oil (LOQ 0.03%) and Concentrates (LOQ 0.6%) by HPLC and UHPLC

LAB-MTD-021: Determination of Cannabinoids of Individually Isolated Sample by HPLC/UHPLC

LAB-MTD-023: Determination of 11 Cannabinoids in Cannabis Tablets and Granules (LOQ 0.025%) by HPLC/UHPLC

LAB-MTD-030: Determination of 11 Cannabinoids in Cannabis Topicals (LOQ 0.005%) by HPLC/UHPLC

LAB-MTD-039: Determination of 11 Cannabinoids in Cannabis Edibles; Liquid Edibles (LOQ 0.0005%) and Solid Edibles (LOQ 0.005%) by UHPLC

LAB-MTD-051: Assay of Cannabinoids in Cannabis Flower as per DAB by HPLC

LAB-MTD-052: Identification of CBD and THCA as per DAB by Thin-Layer Chromatography

Terpene Analysis

LAB-MTD-044: Determination of Terpene Content in Cannabis Dried Flower, Fresh Flower and Extracts by GC-MS

Pesticide Analysis

LAB-MTD-010: Determination of Pesticide and Mycotoxins in Cannabis by LC-MS/MS and GC-MS/MS LAB-MTD-040: Determination of EP Pesticide Residues in Cannabis Oil and Related Products by GC-MS/MS

LAB-MTD-041: Determination of EP Pesticide Residues in Cannabis Flower and Related Products by GC-MS/MS

LAB-MTD-046: Determination of Health Canada Pesticide Residues and Toxins in Cannabis Oil and Related Products by LC-MS/MS

LAB-MTD-048: Determination of Health Canada Pesticide Residues and Toxins in Fresh Cannabis Flower by LC-MS/MS and GC-MS/MS

Mycotoxin Analysis

LAB-MTD-010: Determination of Pesticide and Mycotoxins in Cannabis by LC-MS/MS and GC-MS/MS

LAB-MTD-029: Determination of Toxins in Tablet Samples by LC-MS/MS

LAB-MTD-037: Determination of Mycotoxins in Topical/Cream Samples by LC-MS/MS

Heavy Metal Analysis

LAB-MTD-050: Multi-Element Analysis of Cannabis Dried Flower, Fresh Flower, Extracts, Rolling Papers, and Related Products by ICP-MS

Flavonoid Analysis

LAB-MTD-045: Determination of Flavonoids in Cannabis Dried Flower, Fresh Flower, and Extracts by LC-MS/MS

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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



Details of Testing

Microbial Analysis

MIC-MTD-001: Microbial Analysis of Cannabis Flower and Oil by qPCR MIC-MTD-006: Determination of Viruses in Cannabis via qPCR and ELISA MIC-MTD-007: Microbial Analysis of Cannabis by Culture Techniques

MIC-MTD-009: Cannabis Gender Determination by qPCR

Moisture Analysis

LAB-MTD-017: Determination of Moisture Content in Cannabis Flower

LAB-MTD-031: Water Activity Meter Setup and Operation

LAB-MTD-053: Determination of Moisture Content by Loss on Drying Technique using Vacuum

Oven

Sample Appearance and Foreign Matter

LAB-MTD-022: Sample Appearance and Detection of Foreign Matter Content in Cannabis Samples

Total Ash Analysis

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

Residual Solvents Analysis

LAB-MTD-036: Determination of Residual Solvents in Cannabis Oil by GC-MS LAB-MTD-028: Determination of Residual Solvents in Tablet Samples by GC-MS LAB-MTD-034: Determination of Propane and Butane in Cannabis Oil by GC-MS

LAB-MTD-038: Determination of Toluene in Cannabis Isolate by GC-MS

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HIGH NORTH ID: 00346531

Date: 2023-06-15

Certificate: 1686872186



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

Client: PINNRZ x Final Bell

3-1100 Bennett Road,

Bowmanville, ON, L1C 0Y7

Name: PINNRZ x Final Bell

6479688119

rlaw@finalbell.com

Product: Pinnrz Blue

Lot: BB00941-PR-1 Matrix: Flower

Sub-matrix: Pre-roll

Sampled: 2023-06-13 Received: 2023-06-13

Certificate of Analysis

Foreign Matter Analysis None Detected

Microbial Analysis	LOD (CFU/	g) Result (CFU/g)
Total Aerobic Count	12	ND ND
Total Yeast and Mold Count Bile-Tolerant Gram-Negative	1.8 5	ND ND
Salmonella		Absent in 25g
E.coli		Absent in 1g

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:

KOSukaca Kintesh Sutaria QA Specialist

Details of Testing

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LAB-MTD-045: Determination of Flavonoids in Cannabis Dried Flower, Fresh Flower, and Extracts by LC-MS/MS

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Authorized by:

KUSukuska Kintesh Sutaria QA Specialist

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LAB-MTD-031: Water Activity Meter Setup and Operation

LAB-MTD-053: Determination of Moisture Content by Loss on Drying Technique using Vacuum

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Authorized by:

KOSuková Kintesh Sutaria QA Specialist

unless explicitly waived otherwise.



CERTIFICATE OF ANALYSIS

Client information COA information

Muskoka GrownCOA number230117_42912_PAR11916

440 Ecclestone Dr, COA Date **17-Jan-2023**Bracebridge, Canada, P1L 1Z6 Analysis Request ID **PAR11916**

Sample information

Sample Name Dank Wafers Sample Receiving Date 12-Jan-2023

Sample ID 20220614DANK01HDHT Receiving Temperature 21°C

Laboratory ID PAT38537 Analysis Date 17-Jan-2023

Method Ref. PAT-AM-020 (USP 233 Modified)

Results Information

Heavy Metals	Results	Unit	LOQ	Specification
Arsenic	<0.025	ppm	0.025	< 0.2ppm
Cadmium	<0.020	ppm	0.02	< 0.3ppm
Lead	<0.010	ppm	0.01	< 0.5ppm
Mercury	<0.005	ppm	0.005	< 0.1ppm

Authorized by: Laboratory Manager Signature:



Details of testing

- 1. LOQ- Limit of quantification
- 2. Results only apply to the items tested and to the sample(s) as received.
- 3. This report may not be distributed or reproduced except in full.



This COA can be verified by scanning the QR code



Sample information

Sample Name Dank Wafers Sample Receiving Date 12-Jan-2023

Sample ID 20220614DANK01HDHT Receiving Temperature 21°C

Laboratory ID PAT38537 Analysis Date 16-Jan-2023

Method Ref. PAT-AM-024

Results Information

Aflatoxins	Results	Unit	LOQ
Aflatoxin B1	<0.002	ppm	0.002
Aflatoxin B2	<0.002	ppm	0.002
Aflatoxin G1	<0.002	ppm	0.002
Aflatoxin G2	<0.002	ppm	0.002
Total Aflatoxins (B1,B2,G1,G2)	<0.002	ppm	0.002

Authorized by: Laboratory Manager

Signature:



Details of testing

- 1. LOQ- Limit of quantification
- 2. Results only apply to the items tested and to the sample(s) as received.
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Sample information

Sample Name Dank Wafers Sample Receiving Date 12-Jan-2023

Sample ID 20220614DANK01HDHT Receiving Temperature 21°C

Laboratory ID PAT38537 Analysis Date 16-Jan-2023

Method Ref. PAT-AM-022

Terpenes Profile

Compounds	Results (%w/w)	Results (mg/g)	LOQ(%)
d-Limonene	0.419	4.190	0.001
beta-Caryophyllene	0.236	2.360	0.001
trans-Nerolidol	0.227	2.270	0.001
Linalool	0.198	1.980	0.001
Beta-Myrcene	0.126	1.260	0.001
Beta-Pinene	0.085	0.850	0.001
alpha-Humulene	0.079	0.790	0.001
1R-endo-Fenchyl-Alcohol	0.058	0.580	0.001
Farnesol 2	0.056	0.560	0.001
Valencene	0.054	0.540	0.001
alpha-Terpineol	0.052	0.520	0.001
(-)-alpha-Bisabolol	0.048	0.480	0.001
Alpha-Pinene	0.041	0.410	0.001
trans-beta-Farnesene	0.032	0.320	0.001
Camphene	0.013	0.130	0.001
Farnesol 1	0.007	0.070	0.001
Terpinolene	0.007	0.070	0.001
Terpinen-4-ol	0.006	0.060	0.001
Geraniol	0.004	0.040	0.001
Thymol	0.003	0.030	0.001
Isoborneol	0.002	0.020	0.001
Menthol	0.002	0.020	0.001
Sabinene hydrate	0.002	0.020	0.001
Squalene	0.002	0.020	0.001
(-)-Guaiol	0.001	0.010	0.001
(-)-Isopulegol	<0.001	<0.010	0.001
1,8-Cineole (Eucalyptol)	<0.001	<0.010	0.001
alpha-Cedrene	<0.001	<0.010	0.001
Alpha-Terpinene	<0.001	<0.010	0.001
Borneol	<0.001	<0.010	0.001
Carvacrol	<0.001	<0.010	0.001
Cedrol	<0.001	<0.010	0.001
cis-beta-Ocimene	0.001	0.010	0.001
cis-Nerolidol	<0.001	<0.010	0.001
Citronellol	<0.001	<0.010	0.001
Delta-3-Carene	<0.001	<0.010	0.001
gamma-Terpinene	<0.001	<0.010	0.001
m-Isopropyltoluene	<0.001	<0.010	0.001
Nerol	<0.001	<0.010	0.001
o-Isopropyltoluene	<0.001	<0.010	0.001
Phytane	<0.001	<0.010	0.001
,	-01001	-01020	0.001





Compounds	Results (%w/w)	Results (mg/g)	LOQ(%)
p-Isopropyltoluene (p- Cymene)	<0.001	<0.010	0.001
Sabinene	<0.001	<0.010	0.001
trans-beta-ocimene	<0.001	<0.010	0.001
Total Terpenes	1.761	17.610	

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.
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This COA can be verified by scanning the QR code



Sample information

Sample Name Dank Wafers Sample Receiving Date 12-Jan-2023

Sample ID 20220614DANK01HDHT Receiving Temperature 21°C

Laboratory ID PAT38537 Analysis Date 16-Jan-2023

Method Ref. PAT-AM-024

Pesticides Dried Cannabis Results Information

Compound Detected Results (ppm) Canada RDL

No Compounds Detected

Acephate ND 0.02 0.02 Acequinocyl ND 0.03 0.02 Acetamiprid ND 0.1 0.0 Aldicarb ND 1 0.0 Allethrin ND 0.2 0.0 Azadirachtin ND 1 0.0 Azoxystrobin ND 0.02 0.0 Benzovindiflupyr ND 0.02 0.0 Bifenazate ND 0.02 0.0 Bifenthrin ND 1 0.0 Boscalid ND 0.02 0.0 Buprofezin ND 0.02 0.0 Carbaryl ND 0.05 0.0	
Acequinocyl ND 0.03 0.00 Acetamiprid ND 0.1 0.0 Aldicarb ND 1 0.0 Allethrin ND 0.2 0.0 Azadirachtin ND 1 0.0 Azoxystrobin ND 0.02 0.0 Benzovindiflupyr ND 0.02 0.0 Bifenazate ND 0.02 0.0 Bifenthrin ND 1 0.0 Boscalid ND 0.02 0.0 Buprofezin ND 0.02 0.0 Carbaryl ND 0.05 0.0	.02
Acetamiprid ND 0.1 0.0 Aldicarb ND 1 0.0 Allethrin ND 0.2 0.0 Azadirachtin ND 1 0.0 Azoxystrobin ND 0.02 0.0 Benzovindiflupyr ND 0.02 0.0 Bifenazate ND 0.02 0.0 Bifenthrin ND 1 0.0 Boscalid ND 0.02 0.0 Buprofezin ND 0.02 0.0 Carbaryl ND 0.05 0.0	.02
Aldicarb ND 1 0.0 Allethrin ND 0.2 0.0 Azadirachtin ND 1 0.0 Azoxystrobin ND 0.02 0.0 Benzovindiflupyr ND 0.02 0.0 Bifenazate ND 0.02 0.0 Bifenthrin ND 1 0.0 Boscalid ND 0.02 0.0 Buprofezin ND 0.02 0.0 Carbaryl ND 0.05 0.0	.02
Allethrin ND 0.2 0.2 Azadirachtin ND 1 0.0 Azoxystrobin ND 0.02 0.02 Benzovindiflupyr ND 0.02 0.0 Bifenazate ND 0.02 0.0 Bifenthrin ND 1 0.0 Boscalid ND 0.02 0.0 Buprofezin ND 0.02 0.0 Carbaryl ND 0.05 0.0	.02
Azadirachtin ND 1 0.00 Azoxystrobin ND 0.02 0.00 Benzovindiflupyr ND 0.02 0.00 Bifenazate ND 0.02 0.00 Bifenthrin ND 1 0.00 Boscalid ND 0.02 0.00 Buprofezin ND 0.02 0.00 Carbaryl ND 0.05 0.05	.02
Azoxystrobin ND 0.02 0.02 Benzovindiflupyr ND 0.02 0.02 Bifenazate ND 0.02 0.02 Bifenthrin ND 1 0.02 0.02 Boscalid ND 0.02 0.02 0.02 Buprofezin ND 0.02 0.02 0.02 Carbaryl ND 0.05 0.05	.02
Benzovindiflupyr ND 0.02 0.02 Bifenazate ND 0.02 0.02 Bifenthrin ND 1 0.02 Boscalid ND 0.02 0.02 Buprofezin ND 0.02 0.02 Carbaryl ND 0.05 0.05	.02
Bifenazate ND 0.02 0.02 Bifenthrin ND 1 0.02 Boscalid ND 0.02 0.02 Buprofezin ND 0.02 0.02 Carbaryl ND 0.05 0.05	.01
Bifenthrin ND 1 0.0 Boscalid ND 0.02 0.0 Buprofezin ND 0.02 0.0 Carbaryl ND 0.05 0.0	.01
Boscalid ND 0.02 0.02 Buprofezin ND 0.02 0.02 Carbaryl ND 0.05 0.05	.02
Buprofezin ND 0.02 0.02 Carbaryl ND 0.05 0.05	.02
Carbaryl ND 0.05 0.0	.01
	.01
Carbofuran ND 0.02 0.0	.02
	.01
Chlorantraniliprole ND 0.02 0.0	.01
Chlorphenapyr ND 0.05 0.0	.05
Chlorpyrifos ND 0.04 0.0	.01
Clofentezine ND 0.02 0.0	.01
Clothianidin ND 0.05 0.0	.02
Coumaphos ND 0.02 0.0	.01
Cyantraniliprole ND 0.02 0.0	.01
Cyfluthrin ND 0.2 0.).1
CypermethrinND0.30.0	.02
Cyprodinil ND 0.25 0.0	.02
DaminozideND0.10.0	.05
Deltamethrin ND 0.5 0.0	.02
Diazinon ND 0.02 0.0	.01
Dichlorvos ND 0.1 0.0	.02
Dimethoate ND 0.02 0.0	.01
Dimethomorph ND 0.05 0.05	.02
Dinotefuran ND 0.1 0.0	.02
Dodemorph ND 0.05 0.05	.02
Endosulfan sulfate ND 0.05 0.0	.02
Endosulfan-alpha ND 0.2 0.	0.1
Endosulfan-beta ND 0.05 0.05	.01
Ethoprophos ND 0.02 0.0	.01
Etofenprox ND 0.05 0.05	.01



Compounds Not Detected	Results (ppm)	Canada	RDL
Etoxazole	ND	0.02	0.01
Etridiazole	ND	0.03	0.01
Fenoxycarb	ND	0.02	0.01
Fenpyroximate	ND	0.02	0.02
Fensulfothion	ND	0.02	0.01
Fenthion	ND	0.02	0.01
Fenvalerate	ND	0.1	0.05
Fipronil	ND	0.06	0.01
Flonicamid	ND	0.05	0.02
Fludioxonil	ND	0.02	0.01
Fluopyram	ND	0.02	0.01
Hexythiazox	ND	0.01	0.01
Imazalil	ND	0.05	0.01
Imidacloprid	ND	0.02	0.01
Iprodione	ND	1	0.5
Kinoprene	ND	0.5	0.05
Kresoxim-methyl	ND	0.02	0.01
Malathion	ND	0.02	0.01
Metalaxyl	ND	0.02	0.01
Methiocarb	ND	0.02	0.01
Methomyl	ND	0.05	0.02
Methoprene	ND	2	0.5
Mevinphos	ND	0.05	0.02
MGK-264	ND	0.05	0.02
Myclobutanil	ND	0.02	0.01
Naled	ND	0.1	0.02
Novaluron	ND	0.05	0.02
Oxamyl	ND	3	0.02
Paclobutrazol	ND	0.02	0.01
Parathion-methyl	ND	0.05	0.02
Permethrin	ND	0.5	0.1
Phenothrin	ND	0.05	0.02
Phosmet	ND	0.02	0.01
Piperonyl butoxide	ND	0.2	0.02
Pirimicarb	ND	0.02	0.01
Prallethrin	ND	0.05	0.02
Propiconazole	ND	0.1	0.01
Propoxur	ND	0.02	0.01
Pyraclostrobin	ND	0.02	0.01
Pyrethrins	ND	0.05	0.025
Pyridaben	ND	0.05	0.02
Quintozene	ND	0.02	0.02
Resmethrin	ND ND	0.02	0.02
Spinetoram	ND ND	0.02	0.02
Spinosad	ND	0.02	0.01
Spiriosau Spirodiclofen	ND ND	0.25	0.02
	ND ND	3	0.02
Spirotetramat	ND ND	0.02	
Spirotetramat Spirotemine	ND ND	0.02	0.02 0.01
Spiroxamine Tebuconazole			
	ND	0.05	0.01
Tebufenozide	ND	0.02	0.01



Compounds Not Detected	Results (ppm)	Canada	RDL
Teflubenzuron	ND	0.05	0.02
Tetrachlorvinphos	ND	0.02	0.01
Tetramethrin	ND	0.1	0.02
Thiacloprid	ND	0.02	0.01
Thiamethoxam	ND	0.02	0.01
Thiophanate-methyl	ND	0.05	0.02
Trifloxystrobin	ND	0.02	0.01

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.
- 5. This report may not be distributed or reproduced except in full



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HIGH NORTH ID: 00138095

Date: 2022-02-15

Certificate: 1644964851



High North Inc. 241 Hanlan Rd, Unit 7 Woodbridge, ON, L4L 3R7 1-416-864-6119 LIC-P4PNIMAC20-2019

Client: WILL Cannabis Group Strain: ZOOKIES

31 Hansen Road South, Lot: ZK01WI22B031M

Brampton, ON, L6W 3H7 Matrix: Flower

Name: Enrico Mandarino Sub-matrix: Dried Flower 4164005190 Sampled: 2022-02-08

enrico.mandarino@mjardin.com Received: 2022-02-09

Certificate of Analysis

Cannabinoid Analysis	LOD (%)	LOQ (%)	wt%	mg/g
Total THC [(THCA x 0.877) + D9-THC] Total CBD [(CBDA x 0.877) + CBD] THCA-A	0.0090	0.03	23.266 0.061 26.128	232.656 0.611 261.283
CBGA	0.0090	0.03	0.828	8.277
D9-THC	0.0093	0.03	0.351	3.511
CBG	0.0094	0.03	0.148	1.48
CBDA	0.0100	0.03	0.07	0.697
D8-THC	0.0137	0.03	ND	ND
CBC	0.0060	0.03	ND	ND
THCV	0.0093	0.03	ND	ND
CBN	0.0067	0.03	ND	ND
CBD	0.0069	0.03	ND	ND
CBDV	0.0090	0.03	ND	ND
Total of all quantified cannabinoids:			27.525	275.248

Trans-Caryophyllene0.00020.0051.162Beta-Myrcene0.00030.0050.49Farnesene*0.00090.0050.355Alpha-Humulene0.00100.0050.349(R)-(+)-Limonene0.00010.0050.31Linalool0.00030.0050.104alpha-Bisabolol0.00030.0050.074Terpineol*0.00010.0050.055Beta-Pinene0.00020.0050.042	Terpene Analysis	LOD (%)	LOQ (%)	wt%	
Farnesene*0.00090.0050.355Alpha-Humulene0.00100.0050.349(R)-(+)-Limonene0.00010.0050.31Linalool0.00030.0050.104alpha-Bisabolol0.00030.0050.074Terpineol*0.00010.0050.055Beta-Pinene0.00020.0050.042	Trans-Caryophyllene	0.0002	0.005	1.162	
Alpha-Humulene0.00100.0050.349(R)-(+)-Limonene0.00010.0050.31Linalool0.00030.0050.104alpha-Bisabolol0.00030.0050.074Terpineol*0.00010.0050.055Beta-Pinene0.00020.0050.042	Beta-Myrcene	0.0003	0.005	0.49	
(R)-(+)-Limonene 0.0001 0.005 0.31 Linalool 0.0003 0.005 0.104 alpha-Bisabolol 0.0003 0.005 0.074 Terpineol* 0.0001 0.005 0.055 Beta-Pinene 0.0002 0.005 0.042	Farnesene*	0.0009	0.005	0.355	
Linalool 0.0003 0.005 0.104 alpha-Bisabolol 0.0003 0.005 0.074 Terpineol* 0.0001 0.005 0.055 Beta-Pinene 0.0002 0.005 0.042	Alpha-Humulene	0.0010	0.005	0.349	
alpha-Bisabolol 0.0003 0.005 0.074 Terpineol* 0.0001 0.005 0.055 Beta-Pinene 0.0002 0.005 0.042	(R)-(+)-Limonene	0.0001	0.005	0.31	
Terpineol* 0.0001 0.005 0.055 Beta-Pinene 0.0002 0.005 0.042	Linalool	0.0003	0.005	0.104	
Beta-Pinene 0.0002 0.005 0.042	alpha-Bisabolol	0.0003	0.005	0.074	
	Terpineol*	0.0001	0.005	0.055	
	Beta-Pinene	0.0002	0.005	0.042	
(R)-Endo-(+)-Fenchyl 0.0003 0.005 0.038	(R)-Endo-(+)-Fenchyl	0.0003	0.005	0.038	
Alpha-Pinene 0.0003 0.005 0.029	Alpha-Pinene	0.0003	0.005	0.029	

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



Terpene Analysis	LOD (%)	LOQ (%)	wt%	
Caryophyllene oxide	0.0008	0.005	0.011	
Citronellol	0.0003	0.005	0.011	
Camphene	0.0002	0.005	0.008	
Terpinolene	0.0003	0.005	BLQ	
Fenchone*	0.0003	0.005	BLQ	
Phytol*	0.0013	0.010	ND	
(+)-Cedrol	0.0010	0.005	ND	
Guaiol	0.0003	0.005	ND	
trans-Nerolidol	0.0004	0.005	ND	
cis-Nerolidol	0.0003	0.005	ND	
Valencene	0.0002	0.005	ND	
Eugenol	0.0004	0.010	ND	
Geranyl acetate	0.0002	0.005	ND	
Alpha-Cedrene	0.0002	0.005	ND	
Geraniol	0.0007	0.005	ND	
Pulegone	0.0002	0.005	ND	
Nerol	0.0002	0.005	ND	
Isoborneol	0.0002	0.005	ND	
Camphor + Borneol*	0.0003	0.010	ND	
lsopulegol	0.0004	0.005	ND	
Hexahydrothymol	0.0005	0.005	ND	
Gamma-Terpinene	0.0003	0.005	ND	
Sabinene Hydrate	0.0001	0.005	ND	
Eucalyptol	0.0007	0.005	ND	
Ocimene*	0.0004	0.005	ND	
p-Cymene	0.0003	0.005	ND	
Alpha-Terpinene	0.0003	0.005	ND	
(1S)-3-Carene	0.0007	0.005	ND	
Alpha-Phellandrene	0.0002	0.005	ND	
Sabinene	0.0013	0.005	ND	
Total of all quantified terpo	enes:		3.038	
Moisture Analysis	11.58%			

Foreign Matter Analysis None Detected

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



Mycotoxin Analysis	LOD (ppb)	LOQ (ppb)	RL (ppb)	Result (ppb)	
Aflatoxin-B1	1.0	2	2	ND	PASS
Aflatoxin-B2	0.9	2		ND	PASS
Aflatoxin-G1	0.7	2		ND	PASS
Aflatoxin-G2	1.0	2		ND	PASS
Sum of Aflatoxins:			4	0	PASS
Ochratoxin-A	8.7	20	20	ND	PASS
Microbial Analysis			RL (CFU/g)	Result (CFU/g)	Status
Total Aerobic Count			100,000	ND	PASS
Bile-Tolerant Gram-Negative			1,000	ND	PASS
Total Yeast and Mold Count			1,000	ND	PASS
Salmonella				Absent in 10g	PASS
E.coli				Absent in 10g	PASS
Heavy Metals Analysis	LOD (ppm)	LOQ (ppm)	RL (ppm)	Result (ppm)	Status
Arsenic	0.05	0.2	0.2	ND	PASS
Cadmium	0.01	0.05	0.3	ND	PASS
Lead	0.02	0.5	0.5	ND	PASS
Mercury	0.01	0.05	0.1	ND	PASS

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Pesticides Analysis	LOD (ppm)	LOQ (ppm)	RL (ppm)	Result (ppm)	Status
Abamectin	0.0057	0.1	0.1	ND	PASS
Acephate	0.0100	0.02	0.02	ND	PASS
Acequinocyl	0.0115	0.03	0.03	ND	PASS
Acetamiprid	0.0017	0.1	0.1	ND	PASS
Aldicarb	0.0442	1	1	ND	PASS
Allethrin	0.0314	0.2	0.2	ND	PASS
Azadirachtin	0.0729	1	1	ND	PASS
Azoxystrobin	0.0029	0.02	0.02	ND	PASS
Benzovindiflupyr	0.0038	0.02	0.02	ND	PASS
Bifenazate	0.0022	0.02	0.02	ND	PASS
Bifenthrin	0.0660	1	1	ND	PASS
Boscalid	0.0035	0.02	0.02	ND	PASS
Buprofezin	0.0014	0.02	0.02	ND	PASS
Carbaryl	0.0134	0.05	0.05	ND	PASS
Carbofuran	0.0018	0.02	0.02	ND	PASS
Chlorantraniliprole	0.0039	0.02	0.02	ND	PASS
Chlorfenapyr	0.0263	0.05	0.05	ND	PASS
Chlorpyrifos	0.0033	0.04	0.04	ND	PASS
Clofentezine	0.0022	0.02	0.02	ND	PASS
Clothianidin	0.0220	0.05	0.05	ND	PASS
Coumaphos	0.0038	0.02	0.02	ND	PASS
Cyantraniliprole	0.0032	0.02	0.02	ND	PASS
Cyfluthrin	0.0653	0.2	0.2	ND	PASS
Cypermethrin	0.1550	0.3	0.3	ND	PASS
Cyprodinil	0.0139	0.25	0.25	ND	PASS
Daminozide	0.0138	0.1	0.1	ND	PASS
Deltamethrin	0.0060	0.5	0.5	ND	PASS
Diazinon	0.0016	0.02	0.02	ND	PASS
Dichlorvos	0.0072	0.1	0.1	ND	PASS
Dimethoate	0.0053	0.02	0.02	ND	PASS
Dimethomorph	0.0023	0.05	0.05	ND	PASS
Dinotefuran	0.0076	0.1	0.1	ND	PASS
Dodemorph	0.0026	0.05	0.05	ND	PASS
Endosulfan-alpha	0.0357	0.2	0.2	ND	PASS
Endosulfan-beta	0.0173	0.05	0.05	ND	PASS
Endosulfan sulfate	0.0029	0.05	0.05	ND	PASS
Ethoprophos	0.0060	0.02	0.02	ND	PASS
Etofenprox	0.0059	0.05	0.05	ND	PASS
Etoxazole	0.0007	0.02	0.02	ND	PASS
Etridiazol	0.0036	0.03	0.03	ND	PASS
Fenoxycarb	0.0031	0.02	0.02	ND	PASS
Fenpyroximate	0.0008	0.02	0.02	ND	PASS
Fensulfothion	0.0046	0.02	0.02	ND	PASS



Pesticides Analysis	LOD (ppm)	LOQ (ppm)	RL (ppm)	Result (ppm)	Status
Fenthion	0.0085	0.02	0.02	ND	PASS
Fenvalerate	0.0767	0.1	0.1	ND	PASS
Fipronil	0.0013	0.06	0.06	ND	PASS
Flonicamid	0.0041	0.05	0.05	ND	PASS
Fludioxonil	0.0043	0.02	0.02	ND	PASS
Fluopyram	0.0014	0.02	0.02	ND	PASS
Hexythiazox	0.0016	0.01	0.01	ND	PASS
Imazalil	0.0060	0.05	0.05	ND	PASS
Imidacloprid	0.0018	0.02	0.02	ND	PASS
Iprodione	0.1217	1	1	ND	PASS
Kinoprene	0.1142	0.5	0.5	ND	PASS
Kresoxim-methyl	0.0069	0.02	0.02	ND	PASS
Malathion	0.0041	0.02	0.02	ND	PASS
Metalaxyl	0.0016	0.02	0.02	ND	PASS
Methiocarb	0.0027	0.02	0.02	ND	PASS
Methomyl	0.0093	0.05	0.05	ND	PASS
Methoprene	0.4544	2	2	ND	PASS
Mevinphos	0.0044	0.05	0.05	ND	PASS
MGK-264	0.0035	0.05	0.05	ND	PASS
Myclobutanil	0.0062	0.02	0.02	ND	PASS
Naled	0.0218	0.1	0.1	ND	PASS
Novaluron	0.0019	0.05	0.05	ND	PASS
Oxamyl	0.0123	3	3	ND	PASS
Paclobutrazol	0.0187	0.02	0.02	ND	PASS
Parathion-methyl	0.0312	0.05	0.05	ND	PASS
Permethrin	0.0609	0.5	0.5	ND	PASS
Phenothrin	0.0294	0.05	0.05	ND	PASS
Phosmet	0.0046	0.02	0.02	ND	PASS
Piperonyl butoxide	0.0010	0.2	0.2	ND	PASS
Pirimicarb	0.0020	0.02	0.02	ND	PASS
Prallethrin	0.0097	0.05	0.05	ND	PASS
Propiconazole	0.0687	0.1	0.1	ND	PASS
Propoxur	0.0035	0.02	0.02	ND	PASS
Pyraclostrobin	0.0020	0.02	0.02	ND	PASS
Pyrethrins	0.0135	0.05	0.05	ND	PASS
Pyridaben	0.0010	0.05	0.05	ND	PASS
Quintozene	0.0074	0.02	0.02	ND	PASS
Resmethrin	0.0090	0.1	0.1	ND	PASS
Spinetoram	0.0012	0.02	0.02	ND	PASS
Spinosad	0.0020	0.1	0.1	ND	PASS
Spirodiclofen	0.0140	0.25	0.25	ND	PASS
Spiromesifen	0.0025	3	3	ND	PASS
Spirotetramat	0.0027	0.02	0.02	ND	PASS



LOD (ppm)	LOQ (ppm)	RL (ppm)	Result (ppm)	Status
0.0013	0.1	0.1	ND	PASS
0.0020	0.05	0.05	ND	PASS
0.0021	0.02	0.02	ND	PASS
0.0015	0.05	0.05	ND	PASS
0.0026	0.02	0.02	ND	PASS
0.0239	0.1	0.1	ND	PASS
0.0014	0.02	0.02	ND	PASS
0.0076	0.02	0.02	ND	PASS
0.0174	0.05	0.05	ND	PASS
0.0018	0.02	0.02	ND	PASS
	0.0013 0.0020 0.0021 0.0015 0.0026 0.0239 0.0014 0.0076 0.0174	0.0013 0.1 0.0020 0.05 0.0021 0.02 0.0015 0.05 0.0026 0.02 0.0239 0.1 0.0014 0.02 0.0076 0.02 0.0174 0.05	0.0013 0.1 0.1 0.0020 0.05 0.05 0.0021 0.02 0.02 0.0015 0.05 0.05 0.0026 0.02 0.02 0.0239 0.1 0.1 0.0014 0.02 0.02 0.0076 0.02 0.02 0.0174 0.05 0.05	0.0013 0.1 0.1 ND 0.0020 0.05 0.05 ND 0.0021 0.02 0.02 ND 0.0015 0.05 0.05 ND 0.0026 0.02 0.02 ND 0.0239 0.1 0.1 ND 0.0014 0.02 0.02 ND 0.0076 0.02 0.02 ND 0.0174 0.05 0.05 ND

Will Zhang, Quality Assurance Specialist

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%)

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

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

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)

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

Information is accurate unless otherwise stated. The results of this report are reflective only to material and product analyzed as received. This report shall not be reproduced, without written approval from High North Laboratories. Test Results are confidential unless explicitly waived otherwise.

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





CERTIFICATE OF ANALYSIS

Client information COA information

Muskoka Grown COA number 221206_38434_PAR10644

440 Ecclestone Dr, COA Date **06-Dec-2022**

Bracebridge, Canada, P1L 1Z6 Analysis Request ID PAR10644

Sample information

Sample Name 20220719DBKR75HDMT Sample Receiving Date 01-Dec-2022

Sample ID double krush Receiving Temperature 21°C

Laboratory ID PAT35484 Analysis Date 05-Dec-2022

Method Ref. AOAC 2007.01

Results Information

Aflatoxins	Results	Unit	LOQ
Aflatoxin B1	<0.002	ppm	0.002
Aflatoxin B2	<0.002	ppm	0.002
Aflatoxin G1	<0.002	ppm	0.002
Aflatoxin G2	<0.002	ppm	0.002
Total Aflatoxins (B1,B2,G1,G2)	<0.002	ppm	0.002

Authorized by: Laboratory Manager

Signature:



- 1. LOQ- Limit of quantification
- 2. Results only apply to the items tested and to the sample(s) as received.
- 3. This report may not be distributed or reproduced except in full.



This COA can be verified by scanning the QR code



Sample information

Sample Name 20220719DBKR75HDMT Sample Receiving Date 01-Dec-2022

Sample ID double krush Receiving Temperature 21°C

Laboratory ID PAT35484 Analysis Date 06-Dec-2022

Method Ref. PAT-SOP106, USP233

Results Information

Heavy Metals	Results	Unit	LOQ	Specification
Arsenic	<0.025	ppm	0.025	< 0.2ppm
Cadmium	<0.020	ppm	0.02	< 0.3ppm
Lead	<0.010	ppm	0.01	< 0.5ppm
Mercurv	<0.005	maa	0.005	< 0.1ppm

Authorized by: Laboratory Manager Signature:



Details of testing

- 1. LOQ- Limit of quantification
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Sample information

Sample Name 20220719DBKR75HDMT Sample Receiving Date 01-Dec-2022

Sample ID double krush Receiving Temperature 21°C

Laboratory ID PAT35484 Analysis Date 05-Dec-2022

Method Ref. AOAC 2007.01

Pesticides Dried Cannabis Results Information

Compound Detected Results (ppm) Canada RDL

No Compounds Detected

Compounds Not Detected	Results (ppm)	Canada	RDL
Abamectin	ND	0.1	0.02
Acephate	ND	0.02	0.02
Acequinocyl	ND	0.03	0.02
Acetamiprid	ND	0.1	0.02
Aldicarb	ND	1	0.02
Allethrin	ND	0.2	0.02
Azadirachtin	ND	1	0.02
Azoxystrobin	ND	0.02	0.01
Benzovindiflupyr	ND	0.02	0.01
Bifenazate	ND	0.02	0.02
Bifenthrin	ND	1	0.02
Boscalid	ND	0.02	0.01
Buprofezin	ND	0.02	0.01
Carbaryl	ND	0.05	0.02
Carbofuran	ND	0.02	0.01
Chlorantraniliprole	ND	0.02	0.01
Chlorphenapyr	ND	0.05	0.05
Chlorpyrifos	ND	0.04	0.01
Clofentezine	ND	0.02	0.01
Clothianidin	ND	0.05	0.02
Coumaphos	ND	0.02	0.01
Cyantraniliprole	ND	0.02	0.01
Cyfluthrin	ND	0.2	0.1
Cypermethrin	ND	0.3	0.02
Cyprodinil	ND	0.25	0.02
Daminozide	ND	0.1	0.05
Deltamethrin	ND	0.5	0.02
Diazinon	ND	0.02	0.01
Dichlorvos	ND	0.1	0.02
Dimethoate	ND	0.02	0.01
Dimethomorph	ND	0.05	0.02
Dinotefuran	ND	0.1	0.02
Dodemorph	ND	0.05	0.02
Endosulfan sulfate	ND	0.05	0.02
Endosulfan-alpha	ND	0.2	0.1
Endosulfan-beta	ND	0.05	0.01
Ethoprophos	ND	0.02	0.01
Etofenprox	ND	0.05	0.01



Compounds Not Detected	Results (ppm)	Canada	RDL
Etoxazole	ND	0.02	0.01
Etridiazole	ND	0.03	0.01
Fenoxycarb	ND	0.02	0.01
Fenpyroximate	ND	0.02	0.02
Fensulfothion	ND	0.02	0.01
Fenthion	ND	0.02	0.01
Fenvalerate	ND	0.1	0.05
Fipronil	ND	0.06	0.01
Flonicamid	ND	0.05	0.02
Fludioxonil	ND	0.02	0.01
Fluopyram	ND	0.02	0.01
Hexythiazox	ND	0.01	0.01
Imazalil	ND	0.05	0.01
Imidacloprid	ND	0.02	0.01
Iprodione	ND	1	0.5
Kinoprene	ND	0.5	0.05
Kresoxim-methyl	ND	0.02	0.01
Malathion	ND	0.02	0.01
Metalaxyl	ND	0.02	0.01
Methiocarb	ND	0.02	0.01
Methomyl	ND	0.05	0.02
Methoprene	ND	2	0.5
Mevinphos	ND	0.05	0.02
MGK-264	ND	0.05	0.02
Myclobutanil	ND	0.02	0.01
Naled	ND	0.1	0.02
Novaluron	ND	0.05	0.02
Oxamyl	ND	3	0.02
Paclobutrazol	ND	0.02	0.01
Parathion-methyl	ND	0.05	0.02
Permethrin	ND	0.5	0.1
Phenothrin	ND	0.05	0.02
Phosmet	ND	0.02	0.01
Piperonyl butoxide	ND	0.2	0.02
Pirimicarb	ND	0.02	0.01
Prallethrin	ND	0.05	0.02
Propiconazole	ND	0.1	0.01
Propoxur	ND	0.02	0.01
Pyraclostrobin	ND	0.02	0.01
Pyrethrins	ND	0.05	0.025
Pyridaben	ND	0.05	0.02
Quintozene	ND	0.02	0.02
Resmethrin	ND ND	0.02	0.02
Spinetoram	ND ND	0.02	0.02
Spinosad	ND	0.02	0.01
Spiriosau Spirodiclofen	ND ND	0.25	0.02
	ND ND	3	0.02
Spirotetramat	ND ND	0.02	
Spirotetramat Spirotemine	ND ND	0.02	0.02 0.01
Spiroxamine Tebuconazole			
	ND	0.05	0.01
Tebufenozide	ND	0.02	0.01



Compounds Not Detected	Results (ppm)	Canada	RDL
Teflubenzuron	ND	0.05	0.02
Tetrachlorvinphos	ND	0.02	0.01
Tetramethrin	ND	0.1	0.02
Thiacloprid	ND	0.02	0.01
Thiamethoxam	ND	0.02	0.01
Thiophanate-methyl	ND	0.05	0.02
Trifloxystrobin	ND	0.02	0.01

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.
- 5. This report may not be distributed or reproduced except in full



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6111 Royalmount Avenue, Montreal, Québec, Canada, H4P 2T4

Certificate of Analysis



Cheers Cannabis Inc. Client: 7-Jun-2022 **Date Received** 320220214 Sample Name: 8-Jun-2022 Analysis Date CNF-1098-02 Sample ID **Dried Flower** Sample Type: 13-Jun-2022 Reporting Date 2022-01695 Rev0 Certificate Number:

Cannabinoids	Method (Date of last validation:25-03-2022)	LOD (%w/w)	Result (%w/w)	LOD(mg/g)	Result (mg/g)
Tetrahydrocannabinol (d9-THC)	HPLC-UV Validated Assay CN0001	0.04	0.26	0.4	2.6
Tetrahydrocannabinol Acid A (THCA)	HPLC-UV Validated Assay CN0001	0.04	32.12	0.4	321.2
Cannabidiol (CBD)	HPLC-UV Validated Assay CN0001	0.04	<0,04	0.4	<0,4
Cannabidiolic Acid (CBDA)	HPLC-UV Validated Assay CN0001	0.04	0.08	0.4	0.8
Cannabigerol (CBG)	HPLC-UV Validated Assay CN0001	0.04	0.09	0.4	0.9
Cannabigerolic Acid (CBGA)	HPLC-UV Validated Assay CN0001	0.04	0.93	0.4	9.3
Cannabichromene (CBC)	HPLC-UV Validated Assay CN0001	0.04	<0,04	0.4	<0,4
Cannabidivarin (CBDV)	HPLC-UV Validated Assay CN0001	0.04	<0,04	0.4	<0,4
Cannabinol (CBN)	HPLC-UV Validated Assay CN0001	0.04	<0,04	0.4	<0,4
Δ8-Tetrahydrocannabinol (d8-THC)	HPLC-UV Validated Assay CN0001	0.04	<0,04	0.4	<0,4
Total THC and CBD	Calculation	Tota	Total (% w/w)		tal (mg/g)
Total THC	d9-THC % + (0.877 x THCA %)	2	28.43		284.3
Total CBD	CBD % + (0.877 x CBDA %)	0.07			0.7

LOD - Limit of Detection

Digitally signed by Ying Zhao Date: 2022.06.13

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Certificate of Analysis

Client:Cheers Cannabis Inc.7-Jun-2022Date Received

Sample Name / Lot: 320220214

 Sample ID:
 CNF-1098-02
 Analysis Date

 Sample Type:
 Dried Flower
 13-Jun-2022

 Reporting Date

 Certificate Number:
 2022-01695 Rev0

Certificate Number:	<u>2022-01695 Rev0</u>			
Terpenes	Method (Date of last validation:22-04-2022)	LOD (ppm)	Result (ppm)	Result (%)
alpha-Pinene	GC-MS Headspace Validated Assay CN0068	10.0	628	0.06280
Camphene	GC-MS Headspace Validated Assay CN0068	10.0	210	0.02100
Sabinene	GC-MS Headspace Validated Assay CN0068	10.0	71	0.00710
Myrcene	GC-MS Headspace Validated Assay CN0068	10.0	6722	0.67220
beta-Pinene	GC-MS Headspace Validated Assay CN0068	10.0	1445	0.14450
(R)-(-)-alpha-Phellandrene	GC-MS Headspace Validated Assay CN0068	10.0	59	0.00590
(1s)-(+)-3-Carene	GC-MS Headspace Validated Assay CN0068	10.0	62	0.00620
alpha-Terpinine	GC-MS Headspace Validated Assay CN0068	10.0	73	0.00730
cis-Ocimene	GC-MS Headspace Validated Assay CN0068	2.5	<2,5	<0,00025
(R)-(+)-Limonene	GC-MS Headspace Validated Assay CN0068	10.0	6724	0.67240
p-Cymene	GC-MS Headspace Validated Assay CN0068	10.0	60	0.00600
trans-Ocimene	GC-MS Headspace Validated Assay CN0068	7.5	96	0.00960
Eucalyptol	GC-MS Headspace Validated Assay CN0068	10.0	<10	<0,0010
gamma-Terpinene	GC-MS Headspace Validated Assay CN0068	10.0	70	0.00700
Terpinolene	GC-MS Headspace Validated Assay CN0068	10.0	116	0.01160
Linalool	GC-MS Headspace Validated Assay CN0068	10.0	575	0.05750
(+/-)-Fenchone	GC-MS Headspace Validated Assay CN0068	10.0	81	0.00810
(+)-Fenchol	GC-MS Headspace Validated Assay CN0068	10.0	793	0.07930
(-)-Isopulegol	GC-MS Headspace Validated Assay CN0068	10.0	128	0.01280
(+/-)-Camphor	GC-MS Headspace Validated Assay CN0068	10.0	57	0.00570
Isoborneol	GC-MS Headspace Validated Assay CN0068	10.0	57	0.00570
L-Menthol	GC-MS Headspace Validated Assay CN0068	10.0	121	0.01210
(+/-)-Borneol	GC-MS Headspace Validated Assay CN0068	10.0	264	0.02640
alpha-Terpineol	GC-MS Headspace Validated Assay CN0068	10.0	817	0.08170
Geraniol	GC-MS Headspace Validated Assay CN0068	20.0	330	0.03300
(+)-Pulegone	GC-MS Headspace Validated Assay CN0068	10.0	78	0.00780
Geranyl acetate	GC-MS Headspace Validated Assay CN0068	10.0	152	0.01520
(-)-alpha-Santalene	GC-MS Headspace Validated Assay CN0068	10.0	74	0.00740
(-)-alpha-Cedrene	GC-MS Headspace Validated Assay CN0068	10.0	<10	<0,0010
(-)-trans-Caryophyllene	GC-MS Headspace Validated Assay CN0068	10.0	3831	0.38310
alpha-Humulene	GC-MS Headspace Validated Assay CN0068	10.0	1858	0.18580
Farnesene (sum of isomers)	GC-MS Headspace Validated Assay CN0068	20.0	1003	0.10030
(+)-Valencene	GC-MS Headspace Validated Assay CN0068	10.0	919	0.09190
cis-Nerolidol	GC-MS Headspace Validated Assay CN0068	10.0	<10	<0,0010
Trans-Nerolidol	GC-MS Headspace Validated Assay CN0068	10.0	413	0.04130
(-)-Guaiol	GC-MS Headspace Validated Assay CN0068	10.0	126	0.01260
(-)-Caryophyllene oxide	GC-MS Headspace Validated Assay CN0068	10.0	94	0.00940
(+)-Cedrol	GC-MS Headspace Validated Assay CN0068	10.0	83	0.00830
(-)-alpha-Bisabolol	GC-MS Headspace Validated Assay CN0068	10.0	503	0.05030
Total Terpene			28693	2.86930
Total Telpelle			2000	2.00330

LOD - Limit of Detection

Digitally signed by Ying Zhao Date: 2022.06.13 13:00:32 -04'00'

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Certificate of Analysis



Cheers Cannabis Inc. Client: 24-Jun-2022 **Date Received** 320220214 Sample Name: 27-Jun-2022 Analysis Date CNF-1124-01 Sample ID **Dried Flower** Sample Type: 30-Jun-2022 Reporting Date 2022-01886 Rev0 Certificate Number:

Aflatoxins (Mycotoxins)	Method (Date of last validation:17-01-2020)	LLOQ	Units	Tolerance Limit*	Result
Aflatoxin-B1	LC-MS-MS Validated Assay CN0004	2.00	ppb	2	<2,00
Aflatoxin-B2	LC-MS-MS Validated Assay CN0004	2.00	ppb		<2,00
Aflatoxin-G1	LC-MS-MS Validated Assay CN0004	2.00	ppb		<2,00
Aflatoxin-G2	LC-MS-MS Validated Assay CN0004	2.00	ppb		<2,00
Total (Aflatoxin-B1+B2+G1+G2)			ppb	4	<2,00
*EP <2.8.18>					

Heavy Metals	Method (Date of last validation: 03-09-2020)	LLOQ	Units	Tolerance Limit*	Result
Arsenic	ICP-MS Validated Assay CN0002	0.10	ppm	0.2	<0,10
Cadmium	ICP-MS Validated Assay CN0002	0.10	ppm	0.3	<0,10
Lead	ICP-MS Validated Assay CN0002	0.25	ppm	0.5	<0,25
Mercury	ICP-MS Validated Assay CN0002	0.05	ppm	0.1	<0,05

^{*}ICH Q3D(R1), Based on 10g of daily consumption.

Loss on Drying (CN0012)	Method Description Result (%w/w)		
Loss on Drying %w/w	Moisture Analyzer Validated Method CN0012	10.8	

LLOQ - Lower Limit of Quantification

Digitally signed by Ying Zhao Date: 2022.06.30 18:07:12 -04'00'

Client:

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Dried Flower

Certificate of Analysis



Cheers Cannabis Inc. 24-Jun-2022 Date Received

320220214 Sample Name / Lot: 27-Jun-2022

Analysis Date CNF-1124-01 Sample ID:

30-Jun-2022 Sample Type: Reporting Date **Certificate Number:** 2022-01886 Rev0

Pesticides	Method (Date of last validation:17-01-2020)	LLOQ	Units	Tolerance Limit*	Result
Abamectin	LC-MS-MS Validated Assay CN0004	0.10	ppm	0.1	<0,10
Acephate	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Acequinocyl	LC-MS-MS Validated Assay CN0004	0.03	ppm	0.03	<0,03
Acetamiprid	LC-MS-MS Validated Assay CN0004	0.10	ppm	0.1	<0,10
Aldicarb	LC-MS-MS Validated Assay CN0004	1.00	ppm	1	<1,00
Allethrin	LC-MS-MS Validated Assay CN0004	0.20	ppm	0.2	<0,20
Azadirachtin	LC-MS-MS Validated Assay CN0004	1.00	ppm	1	<1,00
Azoxystrobin	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Benzovindiflupyr	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Bifenazate	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Bifenthrin	LC-MS-MS Validated Assay CN0004	1.00	ppm	1	<1,00
Boscalid	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Buprofezin	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Carbaryl	LC-MS-MS Validated Assay CN0004	0.05	ppm	0.05	<0,05
Carbofuran	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Chlorantraniliprole	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Chlorphenapyr	GC-MS-MS Validated Assay CN0004	0.05	ppm	0.05	<0,05
Chlorpyrifos	LC-MS-MS Validated Assay CN0004	0.04	ppm	0.04	<0,04
Clofentezine	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Clothianidin	LC-MS-MS Validated Assay CN0004	0.05	ppm	0.05	<0,05
Coumaphos	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Cyantranilipole	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Cyfluthrin	GC-MS-MS Validated Assay CN0004	0.20	ppm	0.2	<0,20
Cypermethrin	LC-MS-MS Validated Assay CN0004	0.30	ppm	0.3	<0,30
Cyprodinil	LC-MS-MS Validated Assay CN0004	0.25	ppm	0.25	<0,25
Daminozide	LC-MS-MS Validated Assay CN0004	0.10	ppm	0.1	<0,10
Deltamethrin	LC-MS-MS Validated Assay CN0004	0.50	ppm	0.5	<0,50
Diazinon	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0.02
Dichlorvos	LC-MS-MS Validated Assay CN0004	0.10	ppm	0.1	<0,10
Dimethoate	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Dimethomorph	LC-MS-MS Validated Assay CN0004	0.05	ppm	0.05	<0,05
Dinotefuran	LC-MS-MS Validated Assay CN0004	0.10	ppm	0.1	<0,10
Dodemorph	LC-MS-MS Validated Assay CN0004	0.05	ppm	0.05	<0.05
Endosulfan sulfate	LC-MS-MS Validated Assay CN0004	0.05	ppm	0.05	<0.05
Endosulfan-alpha	GC-MS-MS Validated Assay CN0004	0.20	ppm	0.2	<0.20
Endosulfan-beta	GC-MS-MS Validated Assay CN0004	0.05	ppm	0.05	<0.05
Ethoprophos	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0.02
Etofenprox	LC-MS-MS Validated Assay CN0004	0.05	ppm	0.05	<0.05
Etoxazole	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Etridiazol	GC-MS-MS Validated Assay CN0004	0.03	ppm	0.03	<0.03
Fenoxycarb	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Fenpyroximate	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Fensulfothion	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Fenthion	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Fenvalerate	GC-MS-MS Validated Assay CN0004	0.10	ppm	0.02	<0,10
Fipronil	LC-MS-MS Validated Assay CN0004	0.06	ppm	0.06	<0.06
Flonicamid	LC-MS-MS Validated Assay CN0004	0.05	ppm	0.05	<0,05
Floriicamiu	LO-INIO-INIO VAIIUALEU ASSAY CINUUU4	0.05	phiii	0.05	<0,05

^{*}Health Canada Tolerance Limit

LLOQ - Lower Limit of Quantification

Digitally signed Jingshaw by Ying Zhao Date: 2022.06.30 18:07:27 -04'00'

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Certificate of Analysis

Cheers Cannabis Inc. Client: 24-Jun-2022 **Date Received**

320220214 Sample Name / Lot:

27-Jun-2022

CNF-1124-01 Sample ID:

Analysis Date

Dried Flower Sample Type:

30-Jun-2022 Reporting Date

Certificate Number: 2022-01886 Rev0

	2022 01000 NCV0	-			
Pesticides	Method (Date of last validation: 17-01-2020)	LLOQ	Units	Tolerande Llmit*	Result
Fludioxonil	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Fluopyram	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Hexythiazox	LC-MS-MS Validated Assay CN0004	0.01	ppm	0.01	<0,01
lmazalil	LC-MS-MS Validated Assay CN0004	0.05	ppm	0.05	<0,05
Imidacloprid	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Iprodione	LC-MS-MS Validated Assay CN0004	1.00	ppm	1	<1,00
Kinoprene	GC-MS-MS Validated Assay CN0004	0.50	ppm	0.50	<0,50
Kresoxim-methyl	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Malathion	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Metalaxyl	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0.02
Methiocarb	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0.02
Methomyl	LC-MS-MS Validated Assay CN0004	0.05	ppm	0.05	<0.05
Methoprene	LC-MS-MS Validated Assay CN0004	2.00	ppm	2	<2,00
Methyl parathion	GC-MS-MS Validated Assay CN0004	0.05	ppm	0.05	<0,05
Mevinphos	LC-MS-MS Validated Assay CN0004	0.05	ppm	0.05	<0.05
MGK-264	GC-MS-MS Validated Assay CN0004	0.05	ppm	0.05	<0,05
Myclobutanil	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0.02
Naled	LC-MS-MS Validated Assay CN0004	0.10	ppm	0.02	<0,10
Novaluron	LC-MS-MS Validated Assay CN0004	0.05	ppm	0.05	<0.05
Oxamyl	LC-MS-MS Validated Assay CN0004	3.00	ppm	3.0	<3.00
Paclobutrazol	LC-MS-MS Validated Assay CN0004 LC-MS-MS Validated Assay CN0004	0.02		0.02	<0.02
Permethrin	LC-MS-MS Validated Assay CN0004	0.50	ppm	0.02	<0.50
Phenothrin	LC-MS-MS Validated Assay CN0004 LC-MS-MS Validated Assay CN0004	0.50	ppm	0.05	- ,
Phosmet			ppm		<0,05
Piperonyl butoxide	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Pirimicarb	LC-MS-MS Validated Assay CN0004		ppm		<0,20
	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Prallethrin	LC-MS-MS Validated Assay CN0004	0.05	ppm	0.05	<0,05
Propiconazole	LC-MS-MS Validated Assay CN0004	0.10	ppm	0.1	<0,10
Propoxur	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Pyraclostrobin	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Pyrethrins	LC-MS-MS Validated Assay CN0004	0.05	ppm	0.05	<0,05
Pyridaben	LC-MS-MS Validated Assay CN0004	0.05	ppm	0.05	<0,05
Quintozene	GC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Resmethrin	LC-MS-MS Validated Assay CN0004	0.10	ppm	0.1	<0,10
Spinetoram	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Spinosad A&D (Isomer)	LC-MS-MS Validated Assay CN0004	0.10	ppm	0.1	<0,10
Spirodiclofen	LC-MS-MS Validated Assay CN0004	0.25	ppm	0.25	<0,25
Spiromesifen	LC-MS-MS Validated Assay CN0004	3.00	ppm	3	<3,00
Spirotetramat	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Spiroxamine	LC-MS-MS Validated Assay CN0004	0.10	ppm	0.1	<0,10
Tebuconazole	LC-MS-MS Validated Assay CN0004	0.05	ppm	0.05	<0,05
Tebufenozide	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Teflubenzuron	LC-MS-MS Validated Assay CN0004	0.05	ppm	0.05	<0,05
Tetrachlorvinphos	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Tetramethrin	LC-MS-MS Validated Assay CN0004	0.10	ppm	0.1	<0,10
Thiacloprid	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Thiamethoxam	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Thiophanate-methyl	LC-MS-MS Validated Assay CN0004	0.05	ppm	0.05	<0,05
Trifloxystrobin	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02

*Health Canada Tolerance Limit

LLOQ - Lower Limit of Quantification

Digitally signed Jingshaw by Ying Zhao Date: 2022.06.30

6111 Royalmount Avenue, Montreal, Québec, Canada, H4P 2T4

Certificate of Analysis



Client: Cheers Cannabis Inc. 24-Jun-2022

Date Received

Sample Name: 320220214

27-Jun-2022

Sample ID CNF-1124-01

Analysis Date

Sample Type: Dried Flower

30-Jun-2022 Reporting Date

 Certificate Number:
 2022-01886 Rev0

Microbiological Assay	Method (Date of last validation:23-10-2020)	Tolerance Limit*	Units	Result	Pass/Fail
Total Aerobic Microbial Count	USP and EP Harmonized Method CN0027	500,000	CFU/g	<10	Pass
Total Combined Yeast and Moulds Count	USP and EP Harmonized Method CN0027	50,000	CFU/g	<10	Pass
Bile-tolerant Gram Negative Bacteria	USP and EP Harmonized Method CN0027	10,000	CFU/g	<10	Pass
Escherichia coli	USP and EP Harmonized Method CN0027	Absent in 1g	N/AP	Absent	Pass
Salmonella	USP and EP Harmonized Method CN0027	Absent in 25g	N/AP	Absent	Pass
Pseudomonas aeruginosa	USP and EP Harmonized Method CN0027	Absent in 1g	N/AP	Absent	Pass
Staphylococcus aureus	USP and EP Harmonized Method CN0027	Absent in 1g	N/AP	Absent	Pass

*EP <5.1.4> and EP <5.1.8>

Appearance and Foreign Matter Inspection



Moderate green to light green and tan colored flowering plant particulates. Thick and dense clusters with round-looking nugs.

Absence of stalks, insects and other extraneous substances by visual inspection on 10 grams of samples. No evidence of spoilage.

Photograph taken with Canon EOS Rebel T6 in light box at 1/60 sec. f/8 50mm 100 ISO.

N/AP - Not Applicable

Digitally signed by Ying Zhao
Date: 2022.06.30
18:07:57 -04'00'