

HIGH NORTH ID:
00408781
Date: 2023-11-22
Certificate: 1700697940



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

Client:	PINNRZ Inc. 1-3280 Langstaff Road,, N/A, Vaughan, ON, L4K 5B6	Product:	Lemon Pound Cake
Name:	PINNRZ 6472911686 qa@pinnrz.com	Lot:	10936G1
		Matrix:	Flower
		Sub-matrix:	Milled Flower
		Sampled:	2023-11-21
		Received:	2023-11-21

Certificate of Analysis

Cannabinoid Analysis	LOD (%)	LOQ (%)	wt%	mg/g
Total THC [(THCA x 0.877) + D9-THC]			19.1393	191.3934
Total CBD [(CBDA x 0.877) + CBD]			0.0730	0.7300
D9-THC	0.03	0.06	3.7873	37.8734
THCA-A	0.03	0.06	17.5051	175.0513
CBGA	0.03	0.06	0.4088	4.0878
CBCA	0.03	0.06	0.1750	1.7503
CBN	0.03	0.06	0.1078	1.0775
CBDA	0.03	0.06	0.0832	0.8324
CBG	0.03	0.06	0.0616	0.6157
CBDVA	0.03	0.06	ND	ND
CBDV	0.03	0.06	ND	ND
CBD	0.03	0.06	ND	ND
THCV	0.03	0.06	ND	ND
CBCV	0.03	0.06	ND	ND
THCVA	0.03	0.06	ND	ND
CBCVA	0.03	0.06	ND	ND
D8-THC	0.03	0.06	ND	ND
CBC	0.03	0.06	ND	ND
Total of all quantified cannabinoids:			22.1288	221.2884

Moisture Analysis	Result
Loss on Drying (Moisture Analyzer)	6.94%

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:


Kintesh Sutaria
QA Specialist

Details of Testing

Cannabinoid Analysis

LAB-MTD-020: Determination of 16 Cannabinoids in Cannabis Flowers, Extracts, Topicals, Tablets and Isolates by HPLC

LAB-MTD-039: Determination of 11 Cannabinoids in Cannabis Edibles by HPLC

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 Health Canada Pesticide Residues and Toxins in Dried Cannabis Flower by LC-MS/MS and GC-MS/MS

LAB-MTD-040: Determination of EP 2.8.13 Pesticide Residues in Cannabis Extracts by GC-MS/MS

LAB-MTD-041: Determination of EP 2.8.13/USP 561 Pesticide Residues in Cannabis Flower by GC-MS/MS and LC-MS/MS

LAB-MTD-046: Determination of Health Canada Pesticides and Toxins in Cannabis Extracts 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

LAB-MTD-055: Determination of Israel Pesticide Residues in Dried/Fresh Cannabis by LC-MS/MS and GC-MS/MS

Mycotoxin Analysis

LAB-MTD-010: Determination of Health Canada Pesticide Residues and Toxins in Dried Cannabis Flower 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

LAB-MTD-046: Determination of Health Canada Pesticides and Toxins in Cannabis Extracts 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

Flavonoid Analysis

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

Peroxide Value, p-Anisidine and Acidity (FFA) Analysis

LAB-MTD-049: Determination of Peroxide Value, p-Anisidine, and Acidity (FFA)

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

Authorized by:

Kintesh Sutaria
Kintesh Sutaria
QA Specialist

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
MIC-MTD-010: Identification A and Identification B of Cannabis by DAB Monograph
MIC-MTD-011: Analysis of Shigella Species in Cannabis and Cannabis Infused Products
MIC-MTD-008: Analysis of Listeria Monocytogenes in Cannabis and Cannabis Infused Products
MIC-MTD-012: Microbial Analysis of Cannabis and Cannabis Infused Products by TEMPO

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
LAB-MTD-056: Determination of Moisture Content by Karl Fischer Titration

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
LAB-MTD-054: Determination of Acetic Acid in Flavour, Cannabis Vape Mix Oil and Cannabis Infused Flower by GC-MS

Heavy Metal Analysis

LAB-MTD-027: Determination of Heavy Metals in Cannabis Samples (Cream/Topicals, Tablets and Edibles) by ICP-MS
LAB-MTD-050: Multi-Element Analysis of Cannabis Dried Flower, Fresh Flower, Extracts, and Rolling Papers by ICP-MS

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

Authorized by:

Kintesh Sutaria
Kintesh Sutaria
QA Specialist

HIGH NORTH ID:
00404078
Date: 2023-11-15
Certificate: 1700072674



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

Client:	PINNRZ Inc. 1-3280 Langstaff Road,, N/A, Vaughan, ON, L4K 5B6	Product:	Twoonie Sativa
Name:	PINNRZ 6472911686 qa@pinnrz.com	Lot:	10936B1
		Matrix:	Flower
		Sub-matrix:	Pre-roll
		Sampled:	2023-11-08
		Received:	2023-11-08

Certificate of Analysis

Visual Inspection/Olfactory

Result

Foreign Matter

None Detected

Microbial Analysis

	LOD (CFU/g)	RL (CFU/g)	Result (CFU/g)	Status
Total Aerobic Count	12	500,000	< 12	PASS
Total Yeast and Mold Count	2	50,000	< 2	PASS
Salmonella			Absent in 25g	PASS
E.coli			Absent in 1g	PASS
Bile-Tolerant Gram-Negative	5	10,000	< 5	PASS

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:


Kintesh Sutaria
QA Specialist

Details of Testing

Cannabinoid Analysis

LAB-MTD-020: Determination of 16 Cannabinoids in Cannabis Flowers, Extracts, Topicals, Tablets and Isolates by HPLC

LAB-MTD-039: Determination of 11 Cannabinoids in Cannabis Edibles by HPLC

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 Health Canada Pesticide Residues and Toxins in Dried Cannabis Flower 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 Pesticides and Toxins in Cannabis Extracts 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

LAB-MTD-055: Determination of Israel Pesticide Residues in Dried/Fresh Cannabis by LC-MS/MS and GC-MS/MS

Mycotoxin Analysis

LAB-MTD-010: Determination of Health Canada Pesticide Residues and Toxins in Dried Cannabis Flower 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

LAB-MTD-046: Determination of Health Canada Pesticides and Toxins in Cannabis Extracts 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

Flavonoid Analysis

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

Peroxide Value, p-Anisidine and Acidity (FFA) Analysis

LAB-MTD-049: Determination of Peroxide Value, p-Anisidine, and Acidity (FFA)

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

Authorized by:

Kintesh Sutaria
Kintesh Sutaria
QA Specialist

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
MIC-MTD-010: Identification A and Identification B of Cannabis by DAB Monograph
MIC-MTD-011: Analysis of Shigella Species in Cannabis and Cannabis Infused Products
MIC-MTD-008: Analysis of Listeria Monocytogenes in Cannabis and Cannabis Infused Products

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
LAB-MTD-056: Determination of Moisture Content by Karl Fischer Titration

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
LAB-MTD-054: Determination of Acetic Acid in Flavour, Cannabis Vape Mix Oil and Cannabis Infused Flower by GC-MS

Heavy Metal Analysis

LAB-MTD-027: Determination of Heavy Metals in Cannabis Samples (Cream/Topicals, Tablets and Edibles) by ICP-MS
LAB-MTD-050: Multi-Element Analysis of Cannabis Dried Flower, Fresh Flower, Extracts, and Rolling Papers by ICP-MS

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

Authorized by:

Kintesh Sutaria
Kintesh Sutaria
QA Specialist

CERTIFICATE OF ANALYSIS

Client information

Pinnrz
3280 Langstaff Road
Vaughn, Canada, L4K 5B6

COA information

COA number **231115_83142_PAR23257**
COA Date **15-Nov-2023**
Analysis Request ID **PAR23257**

Sample information

Sample Name **Kush Cookies**
Sample ID **11038G1**
Laboratory ID **PAT69923**

Sample Receiving Date **13-Nov-2023**
Receiving Temperature **21°C**

Results information

Analysis Date	Test	Method Ref.	Results	Units
14-Nov-2023	Moisture	PAT-AM-023(USP <731>)	11.14	%

Authorized by: Laboratory Manager

Signature:



Details of testing

1. Results only apply to the items tested and to the sample(s) as received.
2. 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	Kush Cookies	Sample Receiving Date	13-Nov-2023
Sample ID	11038G1	Receiving Temperature	21°C
Laboratory ID	PAT69923	Analysis Date	14-Nov-2023
Method Ref.	PAT-AM-019		

Cannabinoids Profile

Compounds	Results (%w/w)	Results (mg/g)	LOQ(%)
CBC	<0.050	<0.500	0.050
CBD	<0.050	<0.500	0.050
CBDA	0.062	0.620	0.050
CBDV	<0.050	<0.500	0.050
CBG	0.127	1.270	0.050
CBGA	0.867	8.670	0.050
CBN	<0.050	<0.500	0.050
D8-THC	<0.050	<0.500	0.050
D9-THC	0.958	9.580	0.050
THCA-A	28.430	284.300	0.050
THCV	<0.050	<0.500	0.050
Total THC	25.891	258.911	
Total CBD	0.054	0.544	

25.891%
Total THC

0.054%
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



This COA can be verified by scanning the QR code

***** This is end of the Certificate of Analysis *****

HIGH NORTH ID:
00405948
Date: 2023-11-21
Certificate: 1700589627



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

Client:	PINNRZ Inc. 1-3280 Langstaff Road,, N/A, Vaughan, ON, L4K 5B6	Product:	Twoonie Indica Bulk
Name:	PINNRZ 6472911686 qa@pinnrz.com	Lot:	11038B1
		Matrix:	Flower
		Sub-matrix:	Pre-roll
		Sampled:	2023-11-14
		Received:	2023-11-14

Certificate of Analysis

Visual Inspection/Olfactory

Result

Foreign Matter


None Detected

Microbial Analysis

	LOD (CFU/g)	RL (CFU/g)	Result (CFU/g)	Status
Total Aerobic Count	12	500,000	< 12	PASS
Total Yeast and Mold Count	2	50,000	< 2	PASS
Salmonella			Absent in 25g	PASS
E.coli			Absent in 1g	PASS
Bile-Tolerant Gram-Negative	5	10,000	< 5	PASS

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:


Kintesh Sutaria
QA Specialist

Details of Testing

Cannabinoid Analysis

LAB-MTD-020: Determination of 16 Cannabinoids in Cannabis Flowers, Extracts, Topicals, Tablets and Isolates by HPLC

LAB-MTD-039: Determination of 11 Cannabinoids in Cannabis Edibles by HPLC

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 Health Canada Pesticide Residues and Toxins in Dried Cannabis Flower 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 Pesticides and Toxins in Cannabis Extracts 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

LAB-MTD-055: Determination of Israel Pesticide Residues in Dried/Fresh Cannabis by LC-MS/MS and GC-MS/MS

Mycotoxin Analysis

LAB-MTD-010: Determination of Health Canada Pesticide Residues and Toxins in Dried Cannabis Flower 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

LAB-MTD-046: Determination of Health Canada Pesticides and Toxins in Cannabis Extracts 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

Flavonoid Analysis

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

Peroxide Value, p-Anisidine and Acidity (FFA) Analysis

LAB-MTD-049: Determination of Peroxide Value, p-Anisidine, and Acidity (FFA)

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

Authorized by:

Kintesh Sutaria
Kintesh Sutaria
QA Specialist

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
MIC-MTD-010: Identification A and Identification B of Cannabis by DAB Monograph
MIC-MTD-011: Analysis of Shigella Species in Cannabis and Cannabis Infused Products
MIC-MTD-008: Analysis of Listeria Monocytogenes in Cannabis and Cannabis Infused Products

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
LAB-MTD-056: Determination of Moisture Content by Karl Fischer Titration

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
LAB-MTD-054: Determination of Acetic Acid in Flavour, Cannabis Vape Mix Oil and Cannabis Infused Flower by GC-MS

Heavy Metal Analysis

LAB-MTD-027: Determination of Heavy Metals in Cannabis Samples (Cream/Topicals, Tablets and Edibles) by ICP-MS
LAB-MTD-050: Multi-Element Analysis of Cannabis Dried Flower, Fresh Flower, Extracts, and Rolling Papers by ICP-MS

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

Authorized by:

Kintesh Sutaria
Kintesh Sutaria
QA Specialist

CERTIFICATE OF ANALYSIS

Client information

**Greenway Greenhouse Cannabis
Corperation**
1478, Seacliff Drive
Kingsville, Canada, N9Y 2M2

COA information

COA number **221024_32946_PAR9120**
COA Date **24-Oct-2022**
Analysis Request ID **PAR9120**

Sample information

Sample Name **Lemon Pound Cake**
Sample ID **ELC-22-002**
Laboratory ID **PAT31541**
Method Ref. **PAT-SOP106, USP233**

Sample Receiving Date **18-Oct-2022**
Receiving Temperature **21°C**
Analysis Date **20-Oct-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	<0.010	ppm	<= 0.5	PASS	0.01
Mercury	0.008	ppm	<= 0.1	PASS	0.005

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 **Lemon Pound Cake**
Sample ID **ELC-22-002**
Laboratory ID **PAT31541**
Method Ref. **USP561**

Sample Receiving Date **18-Oct-2022**
Receiving Temperature **21°C**
Analysis Date **18-Oct-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 substances	0	/g	N/A
Spider Mite	0	/g	N/A
Stalks	0	/g	N/A

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	Lemon Pound Cake	Sample Receiving Date	18-Oct-2022
Sample ID	ELC-22-002	Receiving Temperature	21°C
Laboratory ID	PAT31541	Analysis Date	19-Oct-2022
Method Ref.	AOAC 2007.01		

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	ppm	<= 0.004	PASS	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.
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	Lemon Pound Cake	Sample Receiving Date	18-Oct-2022
Sample ID	ELC-22-002	Receiving Temperature	21°C
Laboratory ID	PAT31541	Analysis Date	19-Oct-2022
Method Ref.	AOAC 2007.01		

Pesticides Dried Cannabis Results Information

Compound Detected	Results (ppm)	RDL	Specification (HC MRL Limits)	Compliance
-------------------	---------------	-----	-------------------------------	------------

No Compounds Detected

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

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

Compounds Not Detected	Results (ppm)	RDL	Specification (HC MRL Limits)
Tebufenozide	ND	0.01	< 0.02
Teflubenzuron	ND	0.02	< 0.05
Tetrachlorvinphos	ND	0.01	< 0.02
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.
5. This report may not be distributed or reproduced except in full



This COA can be verified by scanning the QR code

***** This is end of the Certificate of Analysis *****

Certificate of Analysis



CALA
Testing
Accreditation No. A4106

**Les Entreprises
Greentone**

cq@greentone.ca

Valens Labs, c/o Valens Agritech

230 Carion Rd
Kelowna British Columbia
Canada
V4V 2K5

Lab Sample ID CAN-23090710-01
Client SID 1E0627
Sample Type Dried Flower - Cannabis

Date Received 2023-09-07
Date Published 2023-09-19

Methods Summary

Microbials L-019 L-019-05 Analysis of Microbes in Cannabis by qPCR. Eu. Ph. 5.1.6, 2.6.12, 2.6.13 and 2.6.31 with limits as per Eu. Ph. 5.1.8. E. coli, Pseudomonas aeruginosa, Staphylococcus aureus, Listeria Monocytogenes, and Shigella are present/absent in 1 g or 1 mL. Salmonella is present/absent in 25 g or 25 mL.

Microbials L-025 L-025-03 Analysis of Microbes in Cannabis by Plating. Eu. Ph. 5.1.6, 2.6.12, 2.6.13 and 2.6.31 with limits as per Eu. Ph. 5.1.8.

Mycotoxins L-018-04 Determination of Mycotoxins in Cannabis by LC-MS/MS. In house method developed utilizing interference removal cartridges. Limits as per Eu. Ph. 2.8.18 and 2.8.22. Sum of Alfatoxin B1, B2, G1 and G2 must be less than 4 ng/g. Ochratoxin A must be less than 20 ng/g.

Metals L-003-07 Determination of Heavy Metals in Cannabis by ICP-MS. Limits as per ICH Q3D limits for Inhalation Products.

Pesticides (International) L-035-02: In house methods utilizing QuEChERS cleanup and analysis with LC-MS/MS and GC-MS/MS.

Loss on Drying L-021-00 In-house method using a Mettler Toledo HE53 Halogen Moisture Analyzer.

Moisture Content L-031-00 Analysis of Water Content of Cannabis Products by coulometric Karl Fischer titration.

Glossary of Terms

ND : Not Detected
LOQ : Limit of Quantification
LOD : Limit of Detection
ppm : parts per million (micrograms per kilogram for dry weight basis)
* LOD and LOQ under review
‡ Indicates result out of specification

This document shall not be reproduced except in full, without the written approval of Valens Labs.
The results only relate to the items tested.
As Valens Labs is not responsible for the sampling stage, the results apply to the sample as received.

Responsibilities:

Houssain El Arbi, Ph.D.
Sr. Director, Valens Labs

Published By:

Aaron Wylie
QA/QC Associate, Valens Labs

Page 1 of 10
CAN-23090710-01

Results

Microbials - Date Analyzed 2023-09-11		CFU/g	
Analyte	LOQ	Results	Limits
Bile Tolerant Gram-Negative	10	<LOQ	20
<i>E.coli</i>	10	<LOQ	20
<i>E.coli O157:H7</i>	N/A	Absent	
<i>Enterobacteriaceae</i>	10	<LOQ	20
<i>Pseudomonas aeruginosa</i>	N/A	Absent	
<i>Salmonella</i>	N/A	Absent	
<i>Staphylococcus aureus</i>	N/A	Absent	
Total Aerobic Count	100	<LOQ	20000
Total Yeast and Mould Count	100	<LOQ	2000

Mycotoxins - Date Analyzed 2023-09-11		ppb (ng/g)	
Analyte	LOQ	Results	Limits
Aflatoxin B1	0.5	<LOQ	2.0
Aflatoxin B2	1.0	<LOQ	
Aflatoxin G1	1.0	<LOQ	
Aflatoxin G2	1.0	<LOQ	
Ochratoxin A	1.0	<LOQ	2.0
Total Aflatoxins	N/A	<LOQ	4.0

Heavy Metals - Date Analyzed 2023-09-12		ppm (µg/g)	
Analyte	LOQ	Results	Limits
Zinc	0.25	49.30	
Arsenic	0.06	<LOQ	2.50
Cadmium	0.06	<LOQ	0.50
Lead	0.06	<LOQ	5.00
Mercury	0.06	<LOQ	0.10
Nickel	0.06	<LOQ	
Palladium	0.06	<LOQ	

Pesticides - Date Analyzed 2023-09-13		ppm (µg/g)	
Analyte	LOD	Results	Limits
Not Detected			
2,4-D	0.010	ND	0.010
Acephate	0.005	ND	0.010
Acequinocyl	0.010	ND	0.010
Acetamiprid	0.003	ND	0.010
Aclonifen	0.005	ND	0.010
Acrinathrin	0.010	ND	0.010
Alachlor	0.003	ND	0.010
Aldicarb	0.010	ND	0.010
Aldicarb sulfone	0.003	ND	0.010

Responsibilities:



Houssain El Arbi, Ph.D.
Sr. Director, Valens Labs

Published By:



Aaron Wylie
QA/QC Associate, Valens Labs

Pesticides - Date Analyzed 2023-09-13 ppm (µg/g)

Analyte	LOD	Results	Limits
Aldrin	0.003	ND	0.010
Allethrin	0.010	ND	0.010
Ametryn	0.003	ND	0.010
Amitraz	0.003	ND	0.010
Atrazine	0.005	ND	0.010
Avermectin B1a	0.003	ND	0.010
Avermectin B1b	0.010	ND	0.010
Azadirachtin	0.003	ND	0.010
Azinphos ethyl	0.005	ND	0.010
Azinphos methyl	0.005	ND	0.010
Azoxystrobin	0.002	ND	0.010
Benalaxyl	0.002	ND	0.010
Benfluralin	0.003	ND	0.010
Benfuracarb	0.005	ND	0.010
Bentazone	0.005	ND	0.010
Benzovindiflupyr	0.005	ND	0.010
Bifenazate	0.003	ND	0.010
Bifenthrin	0.003	ND	0.010
Bitertanol	0.005	ND	0.010
Boscalid	0.005	ND	0.010
Bromacil	0.005	ND	0.010
Bromide Ion	0.050	ND	0.010
Bromophos ethyl	0.005	ND	0.010
Bromophos methyl	0.005	ND	0.010
Bromopropylate	0.002	ND	0.010
Bromuconazole isomer 1	0.003	ND	0.010
Bromuconazole isomer 2	0.010	ND	0.010
Bupirimate	0.003	ND	0.010
Buprofezin	0.002	ND	0.010
Butylate	0.005	ND	0.010
Cadusafos	0.005	ND	0.010
Captan	0.010	ND	0.010
Carbaryl	0.005	ND	0.010
Carbendazim	0.003	ND	0.010
Carbofuran	0.002	ND	0.010
Carbofuran, 3-hydroxy	0.002	ND	0.010
Carbosulfan	0.002	ND	0.010
Carfentrazone ethyl	0.002	ND	0.010
Chlorantraniliprole	0.005	ND	0.010
Chlordane I	0.002	ND	0.010
Chlordane II	0.002	ND	0.010
Chlorfenapyr	0.005	ND	0.010
Chlorfenvinphos	0.002	ND	0.010
Chlorfluazuron	0.010	ND	0.010
Chlormequat chloride	0.005	ND	0.010

Responsibilities:



Houssain El Aribi, Ph.D.
Sr. Director, Valens Labs

Published By:



Aaron Wylie
QA/QC Associate, Valens Labs

Pesticides - Date Analyzed 2023-09-13 ppm (µg/g)

Analyte	LOD	Results	Limits
Chlorothalonil	0.010	ND	0.010
Chlorpropham	0.005	ND	0.010
Chlorpyrifos ethyl	0.005	ND	0.010
Chlorpyrifos methyl	0.010	ND	0.010
Chlorthal dimethyl	0.002	ND	0.010
Clethodim	0.005	ND	0.010
Clofentezine	0.005	ND	0.010
Clomazone	0.002	ND	0.010
Clopyralid	0.005	ND	0.010
Clothianidin	0.002	ND	0.010
Coumaphos	0.010	ND	0.010
Cyanophos	0.003	ND	0.010
Cyantraniliprole	0.003	ND	0.010
Cycloxydim	0.003	ND	0.010
Cyflufenamid	0.003	ND	0.010
Cyflumetofen	0.005	ND	0.010
Cyfluthrin isomer 1	0.010	ND	0.010
Cyfluthrin isomer 2	0.010	ND	0.010
Cyfluthrin isomer 3	0.010	ND	0.010
Cyhalothrin (Lambda and Gamma)	0.010	ND	0.010
Cyhexatin	0.010	ND	0.010
Cymoxanil	0.005	ND	0.010
Cypermethrin isomer 1	0.007	ND	0.010
Cypermethrin isomer 2	0.007	ND	0.010
Cypermethrin isomer 3	0.007	ND	0.010
Cyproconazole isomer 1	0.005	ND	0.010
Cyproconazole isomer 2	0.005	ND	0.010
Cyprodinil	0.010	ND	0.010
Cyromazine	0.005	ND	0.010
DDD, o,p'	0.002	ND	0.010
DDD, p,p'	0.002	ND	0.010
DDE, o,p'	0.002	ND	0.010
DDE, p,p'	0.002	ND	0.010
DDT, o,p'	0.002	ND	0.010
DDT, p,p'	0.002	ND	0.010
Deltamethrin	0.010	ND	0.010
Demeton-S-Methyl Sulfone	0.002	ND	0.010
Diafenthiuron	0.010	ND	0.010
Diazinon	0.005	ND	0.010
Dichlofluanid	0.010	ND	0.010
Dichlorvos	0.005	ND	0.010
Diclofop Methyl	0.002	ND	0.010
Dicofol	0.001	ND	0.010
Dieldrin	0.003	ND	0.010
Diethofencarb	0.005	ND	0.010

Responsibilities:



Houssain El Aribi, Ph.D.
Sr. Director, Valens Labs

Published By:



Aaron Wylie
QA/QC Associate, Valens Labs

Analyte	LOD	Results	Limits
Difenoconazole	0.003	ND	0.010
Diflubenzuron	0.005	ND	0.010
Diflufenican	0.005	ND	0.010
Dimethenamid	0.002	ND	0.010
Dimethoate	0.002	ND	0.010
Dimethomorph isomer 1	0.003	ND	0.010
Dimethomorph isomer 2	0.003	ND	0.010
Dimethyl disulfide	0.010	ND	0.010
Diniconazole	0.003	ND	0.010
Dinotefuran	0.005	ND	0.010
Diphenylamine	0.005	ND	0.010
Dithianon	0.005	ND	0.010
Dithiocarbamates (Mancozeb-Maneb-Zineb)	0.003	ND	0.010
Dithiocarbamates (Propineb)	0.003	ND	0.010
Dithiocarbamates (Ziram-Thiuram)	0.003	ND	0.010
Diuron	0.003	ND	0.010
Dodemorph	0.003	ND	0.010
Dodine	0.005	ND	0.010
Emamectin benzoate B1a	0.005	ND	0.010
Emamectin benzoate B1b	0.005	ND	0.010
Endosulfan Sulfate	0.003	ND	0.010
Endosulfan-alpha	0.003	ND	0.010
Endosulfan-beta	0.003	ND	0.010
Endrin	0.003	ND	0.010
Endrin aldehyde	0.010	ND	0.010
Esfenvalerate	0.010	ND	0.010
Ethalfuralin	0.003	ND	0.010
Ethion	0.003	ND	0.010
Ethoprophos	0.003	ND	0.010
Ethoxyquin	0.005	ND	0.010
Etofenprox	0.005	ND	0.010
Etoxazole	0.003	ND	0.010
Etridiazole	0.003	ND	0.010
Etrimphos	0.010	ND	0.010
Famoxadone	0.010	ND	0.010
Fenamidone	0.002	ND	0.010
Fenamiphos	0.002	ND	0.010
Fenamiphos sulfone	0.002	ND	0.010
Fenamiphos sulfoxide	0.002	ND	0.010
Fenarimol	0.003	ND	0.010
Fenazaquin	0.005	ND	0.010
Fenbuconazole	0.003	ND	0.010
Fenbutatin oxide	0.010	ND	0.010
Fenchlorphos	0.003	ND	0.010
Fenchlorphos oxon	0.003	ND	0.010

Responsibilities:



Houssain El Aribi, Ph.D.
Sr. Director, Valens Labs

Published By:



Aaron Wylie
QA/QC Associate, Valens Labs

Pesticides - Date Analyzed 2023-09-13 ppm (µg/g)

Analyte	LOD	Results	Limits
Fenhexamid	0.005	ND	0.010
Fenitrothion	0.010	ND	0.010
Fenoxaprop-p-ethyl	0.005	ND	0.010
Fenoxycarb	0.003	ND	0.010
Fenpropathrin	0.010	ND	0.010
Fenpyrazamine	0.005	ND	0.010
Fenpyroximate	0.003	ND	0.010
Fensulfothion	0.003	ND	0.010
Fensulfothion oxon	0.003	ND	0.010
Fensulfothion oxon sulfone	0.003	ND	0.010
Fensulfothion sulfone	0.003	ND	0.010
Fenthion	0.005	ND	0.010
Fenthion oxon	0.003	ND	0.010
Fenthion oxon sulfone	0.003	ND	0.010
Fenthion oxon sulfoxide	0.003	ND	0.010
Fenthion sulfone	0.003	ND	0.010
Fenthion sulfoxide	0.003	ND	0.010
Fenvalerate	0.002	ND	0.010
Fipronil	0.003	ND	0.010
Flonicamid	0.003	ND	0.010
Fluazifop-P-butyl	0.003	ND	0.010
Fluazinam	0.005	ND	0.010
Flubendiamide	0.010	ND	0.010
Flucythrinate	0.005	ND	0.010
Fludioxonil	0.005	ND	0.010
Fluensulfone	0.010	ND	0.010
Flufenoxuron	0.003	ND	0.010
Fluopicolide	0.003	ND	0.010
Fluopyram	0.002	ND	0.010
Flurochloridone	0.002	ND	0.010
Fluroxypyr	0.010	ND	0.010
Fluroxypyr meptyl	0.010	ND	0.010
Flusilazole	0.003	ND	0.010
Flusulfamide	0.003	ND	0.010
Flutolanil	0.003	ND	0.010
Flutriafol	0.003	ND	0.010
Folpet	0.005	ND	0.010
Fonofos	0.010	ND	0.010
Formetanate HCl	0.002	ND	0.010
Fosetyl-Al	0.005	ND	0.010
Guazatine (component GG)	0.005	ND	0.010
Guazatine (component GGG)	0.005	ND	0.010
Guazatine (component GGN and GNG)	0.010	ND	0.010
Haloxypop-R-methyl	0.010	ND	0.010
HCH, alpha-	0.002	ND	0.010

Responsibilities:



Houssain El Aribi, Ph.D.
Sr. Director, Valens Labs

Published By:



Aaron Wylie
QA/QC Associate, Valens Labs

Pesticides - Date Analyzed 2023-09-13		ppm (µg/g)	
Analyte	LOD	Results	Limits
HCH, beta-	0.002	ND	0.010
HCH, delta-	0.002	ND	0.010
HCH, epsilon-	0.002	ND	0.010
HCH, gamma (Lindane)	0.002	ND	0.010
Heptachlor	0.002	ND	0.010
Heptachlor epoxide (cis and trans)	0.003	ND	0.010
Hexachlorobenzene	0.003	ND	0.010
Imazalil	0.003	ND	0.010
Imazamox	0.003	ND	0.010
Imazapyr	0.003	ND	0.010
Imidacloprid	0.002	ND	0.010
Indoxacarb	0.002	ND	0.010
Iprodione	0.010	ND	0.010
Iprovalicarb	0.005	ND	0.010
Kinoprene	0.005	ND	0.010
Kresoxim methyl	0.010	ND	0.010
Linuron	0.005	ND	0.010
Lufenuron	0.003	ND	0.010
Malaoxon	0.002	ND	0.010
Malathion	0.005	ND	0.010
Mandipropamid	0.003	ND	0.010
Mecarbam	0.003	ND	0.010
Mepanipyrim	0.005	ND	0.010
Meptyldinocap	0.005	ND	0.010
Metaflumizone	0.005	ND	0.010
Metalaxyl-M	0.002	ND	0.010
Metam sodium	0.050	ND	0.010
Metamitron	0.003	ND	0.010
Metconazole (cis)	0.005	ND	0.010
Metconazole (trans)	0.010	ND	0.010
Methacrifos	0.003	ND	0.010
Methamidophos	0.003	ND	0.010
Methidathion	0.005	ND	0.010
Methiocarb	0.003	ND	0.010
Methiocarb sulfone	0.002	ND	0.010
Methiocarb sulfoxide	0.002	ND	0.010
Methomyl	0.003	ND	0.010
Methoprene	0.005	ND	0.010
Methoxychlor	0.003	ND	0.010
Methoxyfenozide	0.010	ND	0.010
Metolachlor-S	0.003	ND	0.010
Metominostrobin	0.003	ND	0.010
Metribuzin	0.002	ND	0.010
Mevinphos isomer 1	0.003	ND	0.010
Mevinphos isomer 2	0.003	ND	0.010

Responsibilities:



Houssain El Aribi, Ph.D.
Sr. Director, Valens Labs

Published By:



Aaron Wylie
QA/QC Associate, Valens Labs

Page 7 of 10
CAN-23090710-01

Pesticides - Date Analyzed 2023-09-13 ppm (µg/g)

Analyte	LOD	Results	Limits
MGK-264 isomer 1	0.005	ND	0.010
MGK-264 isomer 2	0.005	ND	0.010
Milbemectin (sum of A3 and A4)	0.010	ND	0.010
Mirex	0.002	ND	0.010
Monocrotophos	0.002	ND	0.010
Myclobutanil	0.003	ND	0.010
Naled	0.005	ND	0.010
Novaluron	0.003	ND	0.010
Omethoate	0.002	ND	0.010
Ortho phenylphenol	0.005	ND	0.010
Oxadiargyl	0.010	ND	0.010
Oxadiazon	0.005	ND	0.010
Oxamyl	0.005	ND	0.010
Oxathiapiprolin	0.002	ND	0.010
Oxychlorane	0.003	ND	0.010
Oxydemeton methyl	0.003	ND	0.010
Oxyfluorfen	0.003	ND	0.010
Paclbutrazol	0.003	ND	0.010
Paraoxon ethyl (Paraoxon)	0.003	ND	0.010
Paraoxon methyl	0.005	ND	0.010
Parathion ethyl (Parathion)	0.003	ND	0.010
Parathion Methyl	0.005	ND	0.010
Penconazole	0.005	ND	0.010
Pencycuron	0.010	ND	0.010
Pendimethalin	0.010	ND	0.010
Pentachloroaniline	0.010	ND	0.010
Pentachloroanisole	0.003	ND	0.010
Pentachlorothioanisole	0.003	ND	0.010
Penthiopyrad	0.003	ND	0.010
Permethrins (2 isomers)	0.010	ND	0.010
Phenothrin	0.005	ND	0.010
Phosalone	0.005	ND	0.010
Phosmet	0.005	ND	0.010
Phosmet oxon	0.002	ND	0.010
Picoxystrobin	0.005	ND	0.010
Piperonyl butoxide	0.005	ND	0.010
Pirimicarb	0.002	ND	0.010
Pirimicarb desmethyl	0.002	ND	0.010
Pirimiphos ethyl	0.003	ND	0.010
Pirimiphos methyl	0.003	ND	0.010
Pirimiphos methyl N-desethyl	0.003	ND	0.010
Prallethrin	0.010	ND	0.010
Prochloraz	0.005	ND	0.010
Procymidone	0.002	ND	0.010
Profenofos	0.005	ND	0.010

Responsibilities:



Houssain El Aribi, Ph.D.
Sr. Director, Valens Labs

Published By:



Aaron Wylie
QA/QC Associate, Valens Labs

Pesticides - Date Analyzed 2023-09-13 ppm (µg/g)

Analyte	LOD	Results	Limits
Prometryn	0.003	ND	0.010
Propamocarb HCl	0.003	ND	0.010
Propaquizafop	0.010	ND	0.010
Propargite	0.010	ND	0.010
Propiconazole	0.005	ND	0.010
Propoxur	0.005	ND	0.010
Propyzamide	0.003	ND	0.010
Proquinazid	0.010	ND	0.010
Prothioconazole	0.005	ND	0.010
Prothiofos	0.005	ND	0.010
Pymetrozine	0.005	ND	0.010
Pyraclostrobin	0.003	ND	0.010
Pyraflufen ethyl	0.005	ND	0.010
Pyrethrum (cinerin I and II)	0.005	ND	0.010
Pyrethrum (jasmolin I and II)	0.010	ND	0.010
Pyrethrum (pyrethrin I and II)	0.010	ND	0.010
Pyridaben	0.005	ND	0.010
Pyridalyl	0.005	ND	0.010
Pyrimethanil	0.010	ND	0.010
Pyrimidifen	0.003	ND	0.010
Pyriofenone	0.003	ND	0.010
Pyriproxyfen	0.003	ND	0.010
Quinalphos	0.010	ND	0.010
Quinoxifen	0.005	ND	0.010
Quintozene	0.005	ND	0.010
Quizalofop-P	0.010	ND	0.010
Quizalofop-P-ethyl	0.005	ND	0.010
Resmethrin	0.010	ND	0.010
Rimsulfuron	0.002	ND	0.010
S-421	0.003	ND	0.010
Simazine	0.003	ND	0.010
Spinetoram J	0.003	ND	0.010
Spinetoram L	0.003	ND	0.010
Spinosyn A	0.005	ND	0.010
Spinosyn D	0.005	ND	0.010
Spirodiclofen	0.010	ND	0.010
Spiromesifen	0.010	ND	0.010
Spirotetramat	0.005	ND	0.010
Spiroxamine	0.003	ND	0.010
Sulfotep	0.005	ND	0.010
Sulfoxaflor isomer 1	0.010	ND	0.010
Sulfoxaflor isomer 2	0.010	ND	0.010
tau-Fluvalinate	0.010	ND	0.010
Tebuconazole	0.005	ND	0.010
Tebufenpyrad	0.005	ND	0.010

Responsibilities:



Houssain El Aribi, Ph.D.
Sr. Director, Valens Labs

Published By:

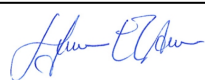


Aaron Wylie
QA/QC Associate, Valens Labs

Pesticides - Date Analyzed 2023-09-13		ppm (µg/g)	
Analyte	LOD	Results	Limits
Tecnazene	0.002	ND	0.010
Teflubenzuron	0.010	ND	0.010
Terbacil	0.003	ND	0.010
Terbutryn	0.003	ND	0.010
Tetrachlorvinphos	0.005	ND	0.010
Tetraconazole	0.003	ND	0.010
Tetradifon	0.005	ND	0.010
Thiabendazole	0.005	ND	0.010
Thiaclopid	0.001	ND	0.010
Thiamethoxam	0.002	ND	0.010
Thiocyclam hydrogenoxalate	0.010	ND	0.010
Thiodicarb	0.003	ND	0.010
Thiophanate methyl	0.002	ND	0.010
Tolclofos methyl	0.010	ND	0.010
Tolfenpyrad	0.003	ND	0.010
Triadimefon	0.003	ND	0.010
Triadimenol	0.003	ND	0.010
Triasulfuron	0.002	ND	0.010
Tribenuron methyl	0.002	ND	0.010
Tridemorph	0.005	ND	0.010
Trifloxystrobin	0.003	ND	0.010
Triflumuron	0.005	ND	0.010
Trifluralin	0.002	ND	0.010
Uniconazole	0.005	ND	0.010
Vinclozolin	0.002	ND	0.010
Zoxamide	0.005	ND	0.010

Loss on Drying - Date Analyzed 2023-09-08		%
Analyte	Results	
Loss on Drying	12.59	
Moisture Content	8.08	

Responsibilities:



Houssain El Aribi, Ph.D.
Sr. Director, Valens Labs

Published By:



Aaron Wylie
QA/QC Associate, Valens Labs