

HIGH NORTH ID:  
00165958  
Date: 2022-08-29  
Certificate: 1661796125



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

Client: Joi Botanicals  
Wheatland County, 53,  
Wheatland County, 53,  
Langdon, AB, T0J 1X0  
Name: Adeniyi Ogunwusi  
587-716-0045  
ADENIYI.OGUNWUSI@JOIBOTANI  
CAL.S.COM  
Strain: Jet Fuel Funk  
Lot: BAT10DPIUUPNWV  
Matrix: Flower  
Sub-matrix: Dried Flower  
Sampled: 2022-04-12  
Received: 2022-04-13

## Certificate of Analysis

<b>Cannabinoid Analysis</b>	LOD (%)	LOQ (%)	wt%	mg/g
Total THC [(THCA x 0.877) + D9-THC]			31.169	311.694
Total CBD [(CBDA x 0.877) + CBD]			0.099	0.987
THCA-A	0.0090	0.03	34.812	348.124
CBGA	0.0041	0.03	0.732	7.321
D9-THC	0.0093	0.03	0.639	6.389
CBG	0.0094	0.03	0.246	2.456
CBDA	0.0100	0.03	0.113	1.125
D8-THC	0.0137	0.03	ND	ND
CBC	0.0060	0.03	ND	ND
CBN	0.0067	0.03	ND	ND
CBD	0.0069	0.03	ND	ND
THCV	0.0093	0.03	ND	ND
CBDV	0.0090	0.03	ND	ND
<b>Total of all quantified cannabinoids:</b>			36.542	365.415

<b>Terpene Analysis</b>	LOD (%)	LOQ (%)	wt%
(R)-(+)-Limonene	0.0001	0.005	1.093
Trans-Caryophyllene	0.0002	0.005	0.906
Farnesene*	0.0009	0.005	0.636
Terpineol*	0.0001	0.005	0.205
Alpha-Humulene	0.0010	0.005	0.185
Alpha-Pinene	0.0003	0.005	0.138
(R)-Endo-(+)-Fenchyl	0.0003	0.005	0.136
Beta-Pinene	0.0002	0.005	0.136
Beta-Myrcene	0.0003	0.005	0.129

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:

Will Zhang, Quality Assurance Specialist

<b>Terpene Analysis</b>	LOD (%)	LOQ (%)	wt%
Linalool	0.0003	0.005	0.086
Ocimene*	0.0004	0.005	0.086
alpha-Bisabolol	0.0003	0.005	0.074
Camphene	0.0002	0.005	0.025
trans-Nerolidol	0.0004	0.005	0.019
Caryophyllene oxide	0.0008	0.005	0.014
Terpinolene	0.0003	0.005	0.013
Citronellol	0.0003	0.005	0.008
Fenchone*	0.0003	0.005	BLQ
Phytol*	0.0013	0.010	ND
(+)-Cedrol	0.0010	0.005	ND
Guaiol	0.0003	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
Geraniol	0.0007	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
Gamma-Terpinene	0.0003	0.005	ND
Sabinene Hydrate	0.0001	0.005	ND
Eucalyptol	0.0007	0.005	ND
p-Cymene	0.0003	0.005	ND
Alpha-Terpinene	0.0003	0.005	ND
Alpha-Phellandrene	0.0002	0.005	ND
(1S)-3-Carene	0.0007	0.005	ND
Sabinene	0.0013	0.005	ND
<b>Total of all quantified terpenes:</b>			<b>3.889</b>

**Moisture Analysis** 12.44%

**Water Activity** 0.5589aw

### Comments

This COA cancels and supersedes certificate ID 1650492738 dated 2022-04-20.  
Reason for Revision: Strain name changed per client request

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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

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.

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## 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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REPORT NO.  
C22103-92026

# A & L Canada Laboratories Inc.



ACCOUNT NUMBER  
02214

2136 Jetstream Road, London, ON, N5V 3P5 Tel: (519) 457-2575 Fax: (519) 457-2664

TO:JOI BOTANICALS LTD. (1953551 ALBERTA  
LTD.)  
53 DURAM DRIVE  
WHEATLAND COUNTY, AB T0J 1X0  
CANADA  
hereinafter the "Recipient"

ATTN:Jeff Karren  
Phone:403-463-5848

## CERTIFICATE OF ANALYSIS

PAGE: 1 / 5

CATEGORY:Contamination  
PO#:Jeff Karren  
LAB NUMBER:1039250  
SAMPLE ID:BAT10DPIUUPNWV  
STRAIN:Jet Fuel Funk

SAMPLE MATRIX:Dried Cannabis  
DATE SAMPLED:2022-04-12  
DATE RECEIVED:2022-04-13  
DATE REPORTED:2022-04-20  
DATE PRINTED:2022-09-01

Regulated Heavy Metals	RESULT	UNIT	LOQ	METHOD REFERENCE
Arsenic (As)	<LOQ	ppm	0.10	USP 233
Cadmium (Cd)	<LOQ	ppm	0.10	USP 233
Lead (Pb)	<LOQ	ppm	0.25	USP 233
Mercury (Hg)	<LOQ	ppm	0.05	USP 233
Aflatoxins	RESULT	UNIT	LOQ	METHOD REFERENCE
Aflatoxin B1	<LOQ	ppb	1	USP 561 (mod)
Aflatoxin B2	<LOQ	ppb	1	USP 561 (mod)
Aflatoxin G1	<LOQ	ppb	1	USP 561 (mod)
Aflatoxin G2	<LOQ	ppb	1	USP 561 (mod)
Total Aflatoxins	<LOQ	ppb	4	USP 561 (mod)
Visual Inspection	RESULT	AMOUNT INSPECTED (g)	METHOD REFERENCE	
Foreign Matter	None Detected	10	USP 561/EP 2.8.2	

LOQ - Limit of Quantification

The results of this report relate to the sample submitted and analyzed. All results are released based on acceptable QC data.



C22103-92026

Results Authorized By:

Haifeng Song, Ph.D., C.Chem.  
Lab Director

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ATTN:Jeff Karren  
Phone:403-463-5848

## CERTIFICATE OF ANALYSIS

PAGE: 2 / 5

CATEGORY:Pesticides  
PO#:Jeff Karren  
LAB NUMBER:1039250  
SAMPLE ID:BAT10DPIUUPNWV  
STRAIN:Jet Fuel Funk

SAMPLE MATRIX:Dried Cannabis  
DATE SAMPLED:2022-04-12  
DATE RECEIVED:2022-04-13  
DATE REPORTED:2022-04-20  
DATE PRINTED:2022-09-01

Pesticide Scan	RESULT	UNIT	LOQ	HEALTH CANADA REPORTING LIMIT	METHOD REFERENCE
Abamectin	<LOQ	ppm	0.02	0.1	ORG-M-051
Acephate	<LOQ	ppm	0.02	0.02	ORG-M-051
Acequinocyl	<LOQ	ppm	0.02	0.03	ORG-M-051
Acetamiprid	<LOQ	ppm	0.01	0.1	ORG-M-051
Aldicarb	<LOQ	ppm	0.02	1	ORG-M-051
Allethrin	<LOQ	ppm	0.05	0.2	ORG-M-051
Azadirachtin	<LOQ	ppm	0.1	1	ORG-M-051
Azoxystrobin	<LOQ	ppm	0.01	0.02	ORG-M-051
Benzovindiflupyr	<LOQ	ppm	0.02	0.02	ORG-M-051
Bifenazate	<LOQ	ppm	0.01	0.02	ORG-M-051
Bifenthrin	<LOQ	ppm	0.02	1	ORG-M-051
Boscalid	<LOQ	ppm	0.02	0.02	ORG-M-051
Buprofezin	<LOQ	ppm	0.01	0.02	ORG-M-051
Carbaryl	<LOQ	ppm	0.05	0.05	ORG-M-051
Carbofuran	<LOQ	ppm	0.02	0.02	ORG-M-051
Chlorantraniliprole	<LOQ	ppm	0.01	0.02	ORG-M-051
Chlorphenapyr	<LOQ	ppm	0.02	0.05	ORG-M-051
Chlorpyrifos	<LOQ	ppm	0.02	0.04	ORG-M-051
Clofentezine	<LOQ	ppm	0.02	0.02	ORG-M-051
Clothianidin	<LOQ	ppm	0.05	0.05	ORG-M-051
Coumaphos	<LOQ	ppm	0.02	0.02	ORG-M-051
Cyantraniliprole	<LOQ	ppm	0.02	0.02	ORG-M-051
Cyfluthrin	<LOQ	ppm	0.05	0.2	ORG-M-051
Cypermethrin	<LOQ	ppm	0.05	0.3	ORG-M-051
Cyprodinil	<LOQ	ppm	0.02	0.25	ORG-M-051

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53 DURAM DRIVE  
WHEATLAND COUNTY, AB T0J 1X0  
CANADA  
hereinafter the "Recipient"

ATTN:Jeff Karren  
Phone:403-463-5848

## CERTIFICATE OF ANALYSIS

PAGE: 3 / 5

CATEGORY:Pesticides  
PO#:Jeff Karren  
LAB NUMBER:1039250  
SAMPLE ID:BAT10DPIUUPNWV  
STRAIN:Jet Fuel Funk

SAMPLE MATRIX:Dried Cannabis  
DATE SAMPLED:2022-04-12  
DATE RECEIVED:2022-04-13  
DATE REPORTED:2022-04-20  
DATE PRINTED:2022-09-01

Pesticide Scan	RESULT	UNIT	LOQ	HEALTH CANADA REPORTING LIMIT	METHOD REFERENCE
Daminozide	<LOQ	ppm	0.05	0.1	ORG-M-051
Deltamethrin	<LOQ	ppm	0.05	0.5	ORG-M-051
Diazinon	<LOQ	ppm	0.02	0.02	ORG-M-051
Dichlorvos	<LOQ	ppm	0.1	0.1	ORG-M-051
Dimethoate	<LOQ	ppm	0.01	0.02	ORG-M-051
Dimethomorph	<LOQ	ppm	0.02	0.05	ORG-M-051
Dinotefuran	<LOQ	ppm	0.1	0.1	ORG-M-051
Dodemorph	<LOQ	ppm	0.01	0.05	ORG-M-051
Endosulfan sulfate	<LOQ	ppm	0.02	0.05	ORG-M-051
Endosulfan-alpha	<LOQ	ppm	0.02	0.2	ORG-M-051
Endosulfan-beta	<LOQ	ppm	0.05	0.05	ORG-M-051
Ethoprophos	<LOQ	ppm	0.02	0.02	ORG-M-051
Etofenprox	<LOQ	ppm	0.02	0.05	ORG-M-051
Etoxazole	<LOQ	ppm	0.02	0.02	ORG-M-051
Etridiazole	<LOQ	ppm	0.02	0.03	ORG-M-051
Fenoxycarb	<LOQ	ppm	0.02	0.02	ORG-M-051
Fenpyroximate	<LOQ	ppm	0.02	0.02	ORG-M-051
Fensulfothion	<LOQ	ppm	0.02	0.02	ORG-M-051
Fenthion	<LOQ	ppm	0.02	0.02	ORG-M-051
Fenvalerate	<LOQ	ppm	0.1	0.1	ORG-M-051
Fipronil	<LOQ	ppm	0.02	0.06	ORG-M-051
Flonicamid	<LOQ	ppm	0.05	0.05	ORG-M-051
Fludioxonil	<LOQ	ppm	0.02	0.02	ORG-M-051
Fluopyram	<LOQ	ppm	0.01	0.02	ORG-M-051
Hexythiazox	<LOQ	ppm	0.01	0.01	ORG-M-051

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PO#:Jeff Karren  
LAB NUMBER:1039250  
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STRAIN:Jet Fuel Funk

SAMPLE MATRIX:Dried Cannabis  
DATE SAMPLED:2022-04-12  
DATE RECEIVED:2022-04-13  
DATE REPORTED:2022-04-20  
DATE PRINTED:2022-09-01

Pesticide Scan	RESULT	UNIT	LOQ	HEALTH CANADA REPORTING LIMIT	METHOD REFERENCE
Imazalil	<LOQ	ppm	0.05	0.05	ORG-M-051
Imidacloprid	<LOQ	ppm	0.02	0.02	ORG-M-051
Iprodione	<LOQ	ppm	0.5	1	ORG-M-051
Kinoprene	<LOQ	ppm	0.5	0.5	ORG-M-051
Kresoxim-methyl	<LOQ	ppm	0.02	0.02	ORG-M-051
Malathion	<LOQ	ppm	0.02	0.02	ORG-M-051
Metalaxyl	<LOQ	ppm	0.02	0.02	ORG-M-051
Methiocarb	<LOQ	ppm	0.02	0.02	ORG-M-051
Methomyl	<LOQ	ppm	0.05	0.05	ORG-M-051
Methoprene	<LOQ	ppm	0.1	2	ORG-M-051
Mevinphos	<LOQ	ppm	0.05	0.05	ORG-M-051
MGK-264	<LOQ	ppm	0.02	0.05	ORG-M-051
Myclobutanil	<LOQ	ppm	0.02	0.02	ORG-M-051
Naled	<LOQ	ppm	0.05	0.1	ORG-M-051
Novaluron	<LOQ	ppm	0.02	0.05	ORG-M-051
Oxamyl	<LOQ	ppm	0.1	3	ORG-M-051
Paclobutrazol	<LOQ	ppm	0.02	0.02	ORG-M-051
Parathion-methyl	<LOQ	ppm	0.02	0.05	ORG-M-051
Permethrin	<LOQ	ppm	0.05	0.5	ORG-M-051
Phenothrin	<LOQ	ppm	0.05	0.05	ORG-M-051
Phosmet	<LOQ	ppm	0.02	0.02	ORG-M-051
Piperonyl Butoxide	<LOQ	ppm	0.02	0.2	ORG-M-051
Pirimicarb	<LOQ	ppm	0.02	0.02	ORG-M-051
Prallethrin	<LOQ	ppm	0.05	0.05	ORG-M-051
Propiconazole	<LOQ	ppm	0.02	0.1	ORG-M-051

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STRAIN:Jet Fuel Funk

SAMPLE MATRIX:Dried Cannabis  
DATE SAMPLED:2022-04-12  
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Pesticide Scan	RESULT	UNIT	LOQ	HEALTH CANADA REPORTING LIMIT	METHOD REFERENCE
Propoxur	<LOQ	ppm	0.01	0.02	ORG-M-051
Pyraclostrobin	<LOQ	ppm	0.01	0.02	ORG-M-051
Pyrethrins	<LOQ	ppm	0.05	0.05	ORG-M-051
Pyridaben	<LOQ	ppm	0.02	0.05	ORG-M-051
Quintozene	<LOQ	ppm	0.02	0.02	ORG-M-051
Resmethrin	<LOQ	ppm	0.05	0.1	ORG-M-051
Spinetoram	<LOQ	ppm	0.02	0.02	ORG-M-051
Spinosad	<LOQ	ppm	0.02	0.1	ORG-M-051
Spirodiclofen	<LOQ	ppm	0.05	0.25	ORG-M-051
Spiromesifen	<LOQ	ppm	0.1	3	ORG-M-051
Spirotetramat	<LOQ	ppm	0.02	0.02	ORG-M-051
Spiroxamine	<LOQ	ppm	0.02	0.1	ORG-M-051
Tebuconazole	<LOQ	ppm	0.02	0.05	ORG-M-051
Tebufenozide	<LOQ	ppm	0.02	0.02	ORG-M-051
Teflubenzuron	<LOQ	ppm	0.05	0.05	ORG-M-051
Tetrachlorvinphos	<LOQ	ppm	0.02	0.02	ORG-M-051
Tetramethrin	<LOQ	ppm	0.1	0.1	ORG-M-051
Thiacloprid	<LOQ	ppm	0.01	0.02	ORG-M-051
Thiamethoxam	<LOQ	ppm	0.02	0.02	ORG-M-051
Thiophanate-methyl	<LOQ	ppm	0.05	0.05	ORG-M-051
Trifloxystrobin	<LOQ	ppm	0.01	0.02	ORG-M-051

LOQ - Limit of Quantification

The results of this report relate to the sample submitted and analyzed. All results are released based on acceptable QC data.

Results Authorized By:



C22103-92026

Haifeng Song, Ph.D., C.Chem.  
Lab Director

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REPORT NO.  
C22159-92016

# A & L Canada Laboratories Inc.



ACCOUNT NUMBER  
02214

2136 Jetstream Road, London, ON, N5V 3P5 Tel: (519) 457-2575 Fax: (519) 457-2664

TO:JOI BOTANICALS LTD. (1953551 ALBERTA  
LTD.)  
53 DURAM DRIVE  
WHEATLAND COUNTY, AB T0J 1X0  
CANADA  
hereinafter the "Recipient"

ATTN:Jeff Karren  
Phone:403-463-5848

## CERTIFICATE OF ANALYSIS

PAGE: 1 / 1

CATEGORY:Contamination  
PO#:Adeniyi Ogunwusi  
LAB NUMBER:1599251  
SAMPLE ID:BAT10DPIUUPNWV  
STRAIN:Jet Fuel Funk

SAMPLE MATRIX:Dried Cannabis  
DATE SAMPLED:2022-04-12  
DATE RECEIVED:2022-06-08  
DATE REPORTED:2022-06-16  
DATE PRINTED:2022-09-01

Microbiological Scan	RESULT	UNIT	LOQ	METHOD REFERENCE
Bile-Tolerant Gram Negative Bacteria	<10	CFU/g	10	USP62/EP2.6.13
E. coli	Negative	P-A/g(ml)	1	USP62/EP2.6.13
Salmonella spp. for cannabis	Negative	P-A/25.0g	1 CFU	EP2.6.31
Total Aerobic Microbial Count	<100	CFU/g	100	USP61/EP2.6.12
Total Yeasts & Moulds	<100	CFU/g	100	USP61/EP2.6.12

LOQ - Limit of Quantification

The results of this report relate to the sample submitted and analyzed. All results are released based on acceptable QC data.



C22159-92016

Results Authorized By:

Haifeng Song, Ph.D., C.Chem.  
Lab Director

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