

Report ID: 422617-OAS
Report Date: 03-Dec-21
Date Received: 29-Nov-21

CERTIFICATE OF ANALYSIS

for
RedeCan Pharm
182 Foss Road
Fenwick, ON L0S 1C0

rpc

921 College Hill Rd
Fredericton NB
Canada E3B 6Z9
Tel: 506.452.1212
Fax: 506.452.0594
www.rpc.ca

Attention: Lab Redecan

Project #: Not Available

Location: 182 Foss Rd, Fenwick, Ontario

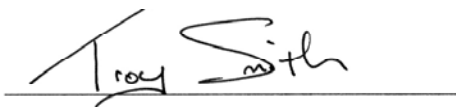
Aflatoxins in Oil

RPC Sample ID:	422617-1		
Client Sample ID:	CAT11211		
Date Sampled:	26-Nov-21		
Matrix:	oil		
Analytes	Units	RL	
Aflatoxin B1	ng/g	2	< 2
Total Aflatoxin (B1, G1, B2, G2)	ng/g	4	< 4


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Troy Smith
Lab Supervisor
Organic Analytical Services



Alyson Atwood
Senior Technician
Organic Analytical Services

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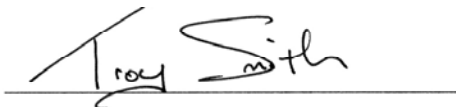
Cannabinoids in cannabis (mg/g) by HPLC

RPC Sample ID:	422617-1		
Client Sample ID:	CAT11211		
Date Sampled:	26-Nov-21		
Matrix:	oil		
Analytes	Units	RL	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	mg/g	0.50	15.0
Delta 9-Tetrahydrocannabinolic Acid (Delta 9-THCA)	mg/g	0.50	ND
Cannabidiol (CBD)	mg/g	0.50	14.8
Cannabidiolic Acid (CBDA)	mg/g	0.50	ND
Cannabigerol (CBG)	mg/g	0.50	1.10
Cannabigerolic Acid (CBGA)	mg/g	0.50	ND
Cannabinol (CBN)	mg/g	0.50	< 0.50
Cannabichromene (CBC)	mg/g	0.50	0.82
Total Delta 9-Tetrahydrocannabinol (Delta 9-THC)	mg/g	0.70	15.0
Total Cannabidiol (CBD)	mg/g	0.70	14.8
Total Cannabigerol (CBG)	mg/g	0.70	1.10

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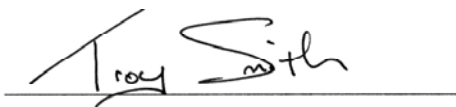
Foreign matter in cannabis

RPC Sample ID:	422617-1		
Client Sample ID:	CAT11211		
Date Sampled:	26-Nov-21		
Matrix:	oil		
Analytes	Units	RL	
Foreign matter	%	2	< 2

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FOREIGN MATTER

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Attention: Lab Redecan

Project #: Not Available

Location: 182 Foss Rd, Fenwick, Ontario

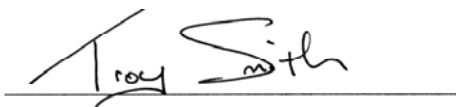
Cannabinoids in oil by HPLC

RPC Sample ID:	422617-1		
Client Sample ID:	CAT11211		
Date Sampled:	26-Nov-21		
Matrix:	oil		
Analytes	Units	RL	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	mg/ml	0.50	14.2
Delta 9-Tetrahydrocannabinolic Acid (Delta 9-THCA)	mg/ml	0.50	ND
Cannabidiol (CBD)	mg/ml	0.50	14.1
Cannabidiolic Acid (CBDA)	mg/ml	0.50	ND
Cannabigerol (CBG)	mg/ml	0.50	1.05
Cannabigerolic Acid (CBGA)	mg/ml	0.50	ND
Cannabinol (CBN)	mg/ml	0.50	< 0.50
Cannabichromene (CBC)	mg/ml	0.50	0.78
Total Delta 9-Tetrahydrocannabinol (Delta 9-THC)	mg/ml	0.70	14.2
Total Cannabidiol (CBD)	mg/ml	0.70	14.1
Total Cannabigerol (CBG)	mg/ml	0.70	1.05

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Location: 182 Foss Rd, Fenwick, Ontario

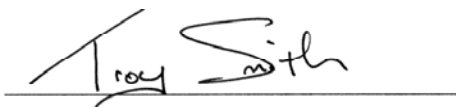
Residual solvent in cannabis extracts

RPC Sample ID:	422617-1		
Client Sample ID:	CAT11211		
Date Sampled:	26-Nov-21		
Matrix:	oil		
Analytes	Units	RL	
Ethanol	%	0.2	< 0.2
Acetone	%	0.2	< 0.2
2-Propanol	%	0.2	< 0.2
1-Propanol	%	0.2	< 0.2
Ethyl Acetate	%	0.2	< 0.2

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Lab Supervisor
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Senior Technician
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RESIDUAL SOLVENT

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Attention: Lab Redecan

Project #: Not Available

Location: 182 Foss Rd, Fenwick, Ontario

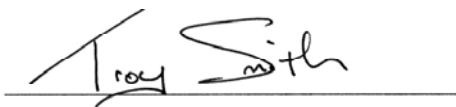
Terpenes in cannabis oil

RPC Sample ID:	422617-1		
Client Sample ID:	CAT11211		
Date Sampled:	26-Nov-21		
Matrix:	oil		
Analytes	Units	RL	
3-carene	%	0.01	< 0.01
Alpha pinene	%	0.01	< 0.01
Alpha-bisabolol	%	0.01	0.01
Beta pinene	%	0.01	< 0.01
Borneol	%	0.01	< 0.01
Caryophyllene	%	0.01	0.01
Cis-nerolidol	%	0.01	< 0.01
Cis-ocimene	%	0.01	< 0.01
Eucalyptol	%	0.01	< 0.01
Fenchol	%	0.01	< 0.01
Guaiol	%	0.01	< 0.01
Humulene	%	0.01	< 0.01
Limonene	%	0.01	< 0.01
Linalool	%	0.01	< 0.01
Myrcene	%	0.01	< 0.01

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Attention: Lab Redecan

Project #: Not Available

Location: 182 Foss Rd, Fenwick, Ontario

Terpenes in cannabis oil

RPC Sample ID:	422617-1		
Client Sample ID:	CAT11211		
Date Sampled:	26-Nov-21		
Matrix:	oil		
Analytes	Units	RL	
Sabinene	%	0.01	< 0.01
Terpineol	%	0.01	< 0.01
Terpinolene	%	0.01	< 0.01
Trans-nerolidol	%	0.01	< 0.01
Trans-ocimene	%	0.01	< 0.01
Valencene	%	0.01	< 0.01
Total terpenes	%	0.05	< 0.05

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Method Summary

Aflatoxin by Immuno Affinity/HPLC (SOP: OAS-SV19). Reference USP 44<561> Method III

Foreign Material: USP 44<561>

Cannabinoids by solvent extraction HPLC-VWD (SOP: OAS-SV21).

Reference Method: 'Recommended Methods for the Identification and Analysis of Cannabis and Cannabis Products' United Nations Office on Drugs and Crime.

Residual Solvents by solvent extraction GC-FID (SOP:OAS-SV22). Reference USP 44<467>

Terpenes by solvent extraction GC-MSD (SOP:OAS-SV23).

COMMENTS

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Project #: Not Available

Summary of Date Analyzed

RPC Sample ID	Aflatoxins (EP) in Oil		Foreign Matter		HPLC Cannabinoids mg_g	
	Extracted	Analyzed	Extracted	Analyzed	Extracted	Analyzed
422617-1	2-Dec-21	2-Dec-21	30-Nov-21	30-Nov-21	29-Nov-21	29-Nov-21

DATE ANALYZED SUMMARY

Report ID: 422617-OAS
Report Date: 03-Dec-21
Date Received: 29-Nov-21

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Tel: 506.452.1212
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www.rpc.ca

Project #: Not Available

Summary of Date Analyzed

RPC Sample ID	HPLC Cannabinoids In Oil		Residual Solvent		Terpenes in Oil	
	Extracted	Analyzed	Extracted	Analyzed	Extracted	Analyzed
422617-1	29-Nov-21	29-Nov-21	1-Dec-21	1-Dec-21	2-Dec-21	2-Dec-21

DATE ANALYZED SUMMARY

CERTIFICATE OF ANALYSIS
 for
 RedeCan Pharm
 182 Foss Road
 Fenwick, ON L0S 1C0

Attention: Lab Redecan

Project #:

Pesticides in oil

RPC Sample ID:		422617-1	
Client Sample ID:		CAT11211	
Date Sampled:		26-Nov-21	
Matrix:		oil	
Analytes	Units	RL	
Abamectin	mg/kg	0.10	< 0.10
Acephate	mg/kg	0.02	< 0.02
Acequinocyl	mg/kg	0.10	< 0.10
Acetamiprid	mg/kg	0.01	< 0.01
Aldicarb	mg/kg	0.01	< 0.01
Allethrin	mg/kg	0.01	< 0.01
Azadirachtin	mg/kg	0.15	< 0.15
Azoxystrobin	mg/kg	0.01	< 0.01
Benzovindiflupyr	mg/kg	0.01	< 0.01
Bifenazate	mg/kg	0.01	< 0.01
Bifenthrin	mg/kg	0.05	< 0.05
Boscalid	mg/kg	0.01	< 0.01
Buprofezin	mg/kg	0.01	< 0.01
Carbaryl	mg/kg	0.01	< 0.01
Carbofuran	mg/kg	0.01	< 0.01
Chlorantraniliprole	mg/kg	0.01	< 0.01
Chlorphenapyr	mg/kg	0.01	< 0.01
Chlorpyrifos	mg/kg	0.01	< 0.01
Clofentezine	mg/kg	0.01	< 0.01
Clothianidin	mg/kg	0.01	< 0.01
Coumaphos	mg/kg	0.01	< 0.01
Cyantraniliprole	mg/kg	0.01	< 0.01
Cyfluthrin	mg/kg	0.02	< 0.02
Cypermethrin	mg/kg	0.02	< 0.02
Cyprodinil	mg/kg	0.01	< 0.01
Daminozide	mg/kg	0.10	< 0.10
Deltamethrin	mg/kg	0.03	< 0.03
Diazinon	mg/kg	0.01	< 0.01
Dichlorvos	mg/kg	0.01	< 0.01
Dimethoate	mg/kg	0.01	< 0.01
Dimethomorph	mg/kg	0.01	< 0.01
Dinotefuran	mg/kg	0.01	< 0.01
Dodemorph	mg/kg	0.01	< 0.01
Endosulfan alpha	mg/kg	0.01	< 0.01
Endosulfan beta	mg/kg	0.01	< 0.01
Endosulfan sulfate	mg/kg	0.01	< 0.01
Ethoprophos	mg/kg	0.01	< 0.01
Etofenprox	mg/kg	0.02	< 0.02
Etoxazole	mg/kg	0.01	< 0.01
Etridiazole	mg/kg	0.01	< 0.01



Bruce Phillips
 Director
 Organic Analytical Services



Karen Broad
 Chemist
 Organic Analytical Services

CERTIFICATE OF ANALYSIS
 for
 RedeCan Pharm
 182 Foss Road
 Fenwick, ON L0S 1C0

Attention: Lab Redecan
 Project #:

Pesticides in oil

RPC Sample ID:		422617-1	
Client Sample ID:		CAT11211	
Date Sampled:		26-Nov-21	
Matrix:		oil	
Analytes	Units	RL	
Fenoxycarb	mg/kg	0.01	< 0.01
Fenpyroximate	mg/kg	0.01	< 0.01
Fensulfothion	mg/kg	0.01	< 0.01
Fenthion	mg/kg	0.01	< 0.01
Fenvalerate	mg/kg	0.02	< 0.02
Fipronil	mg/kg	0.01	< 0.01
Flonicamid	mg/kg	0.01	< 0.01
Fludioxonil	mg/kg	0.01	< 0.01
Fluopyram	mg/kg	0.01	< 0.01
Hexythiazox	mg/kg	0.02	< 0.02
Imazalil	mg/kg	0.01	< 0.01
Imidacloprid	mg/kg	0.01	< 0.01
Iprodione	mg/kg	0.05	< 0.05
Kinoprene	mg/kg	0.2	< 0.2
Kresoxim-methyl	mg/kg	0.01	< 0.01
Malathion	mg/kg	0.01	< 0.01
Metalaxyl	mg/kg	0.01	< 0.01
Methiocarb	mg/kg	0.01	< 0.01
Methomyl	mg/kg	0.01	< 0.01
Methoprene	mg/kg	0.03	< 0.03
Methyl parathion	mg/kg	0.01	< 0.01
Mevinphos	mg/kg	0.01	< 0.01
MGK-264	mg/kg	0.01	< 0.01
Myclobutanil	mg/kg	0.01	< 0.01
Naled	mg/kg	0.01	< 0.01
Novaluron	mg/kg	0.02	< 0.02
Oxamyl	mg/kg	0.01	< 0.01
Paclobutrazol	mg/kg	0.01	< 0.01
Permethrin	mg/kg	0.02	< 0.02
Phenothrin	mg/kg	0.03	< 0.03
Phosmet	mg/kg	0.01	< 0.01
Piperonyl butoxide	mg/kg	0.01	< 0.01
Pirimicarb	mg/kg	0.01	< 0.01
Prallethrin	mg/kg	0.01	< 0.01
Propiconazole	mg/kg	0.01	< 0.01
Propoxur	mg/kg	0.01	< 0.01
Pyraclostrobin	mg/kg	0.01	< 0.01
Pyrethrins	mg/kg	0.01	< 0.01
Pyridaben	mg/kg	0.01	< 0.01
Quintozene	mg/kg	0.01	< 0.01
Resmethrin	mg/kg	0.03	< 0.03
Spinetoram	mg/kg	0.01	< 0.01
Spinosad	mg/kg	0.01	< 0.01
Spirodiclofen	mg/kg	0.02	< 0.02
Spiromesifen	mg/kg	0.01	< 0.01
Spirotetramat	mg/kg	0.01	< 0.01

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Attention: Lab Redecan
Project #:

Pesticides in oil

RPC Sample ID:			422617-1
Client Sample ID:			CAT11211
Date Sampled:			26-Nov-21
Matrix:			oil
Analytes	Units	RL	
Spiroxamine	mg/kg	0.01	< 0.01
Tebuconazole	mg/kg	0.01	< 0.01
Tebufozide	mg/kg	0.01	< 0.01
Teflubenzuron	mg/kg	0.02	< 0.02
Tetrachlorvinphos	mg/kg	0.01	< 0.01
Tetramethrin	mg/kg	0.02	< 0.02
Thiacloprid	mg/kg	0.01	< 0.01
Thiamethoxam	mg/kg	0.01	< 0.01
Thiophanate-methyl	mg/kg	0.03	< 0.03
Trifloxystrobin	mg/kg	0.01	< 0.01

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Method Summary

Pesticides by LC-MS/MS and APGC-MS/MS

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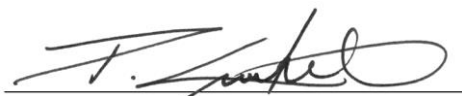
Attention: Lab Redecan
Project #: Not Available
Location: 182 Foss Rd, Fenwick, Ontario

Analysis of Samples

RPC Sample ID:		422617-1	
Client Sample ID:		CAT11211	
Date Sampled:		26-Nov-21	
Analytes	Units	RL	
Arsenic	mg/kg	0.2	< 0.2
Cadmium	mg/kg	0.002	< 0.002
Cobalt	mg/kg	0.02	< 0.02
Lead	mg/kg	0.02	< 0.02
Mercury	mg/kg	0.01	< 0.01
Nickel	mg/kg	0.2	0.9
Vanadium	mg/kg	0.1	< 0.1

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Peter Crowhurst, B.Sc., C.Chem.
Director
Inorganic Analytical Chemistry



Matthew Norman, B.Sc., P.Chem.
Senior Chemist
Inorganic Analytical Chemistry

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General Report Comments

A portion of the sample was prepared by Microwave Assisted Digestion in nitric acid (SOP 4.M26).
The resulting solution was analyzed for trace elements by ICP-MS (SOP 4.M01).
Mercury was analyzed by Cold Vapour AAS (SOP 4.M52 & SOP 4.M53).

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Methods

<u>Analyte</u>	<u>RPC SOP #</u>	<u>Method Reference</u>	<u>Method Principle</u>
Microwave Digestion	4.M26	EPA 3051a	Microwave Assisted Digestion in Nitric Acid
Trace Elements	4.M01	EPA 200.8	Inductively Coupled Plasma Mass Spectrometry
Mercury	4.M52/4.M53	EPA 245.6	Cold Vapour AAS

CERTIFICATE OF ANALYSIS / CERTIFICAT D'ANALYSE

for/pour
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Fenwick, ON L0S 1C0

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Tel: 506.452.1368
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www.rpc.ca

Attention: Lab Redecan / Jackie Fletcher

Client Location: 182 Foss Rd, Fenwick, Ontario
Microbiological Examination of Oil

RPC Sample ID/No. d'échantillon de RPC:				422617-1
Client Sample ID/ID d'échantillon du client:				CAT11211
Date collected/Date du prélèvement				26-Nov-21
Analytes/Paramètre(s)	Method/Méthode	Date Analyzed Date Analysé	Units Unités	
Bile Tolerant Gram Negative	MICRO30-USP 62	30-Nov-21	MPN/g	<10
Total Bacteria Count	MICRO40-MFHPB-18	30-Nov-21	cfu/g	<10
E. coli	MICRO32-USP 62	30-Nov-21	g	a
Salmonella	MICRO42-MFHPB-20	30-Nov-21	25g	a
Yeasts/molds	MICRO41-MFHBP-22	30-Nov-21	cfu/g	<10/<10

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Le présent rapport ne s'applique qu'aux échantillons et à l'information transmis au laboratoire.

a = absent/absentes



Cathy Hay
Microbiology Supervisor
Applied and Experimental Bioscience



Morgan Armour
Microbiology Technician
Applied and Experimental Bioscience