



## PPB Analytical Inc.

30 Tempo Ave, Toronto, ON M2H 2N8 (647)-812-5296  
info@ppbanalytical.com | https://ppbanalytical.com/

### Certificate of Analysis

Client Name	Retro Cannabis & Hemp Extracts
Client Address	#200 25 4th Street, Charlottetown, Prince Edward Island C1E 2B4
Client Contact	Andrew Costa (andrew@retrocannabis.ca)
PPB Analytical Sample ID	3023_0940
Sample Receiving Date	Nov. 15, 2023
Sample Registration Date	Nov. 15, 2023
Receiving Condition	Ambient
Client Sample Code <sup>#</sup>	231107-I1-00-BK
Sample Description <sup>#</sup>	Island Rain 100 sample , 231107-I1-00-BK
Sample size	50 g
Test Report Date	Nov. 23, 2023

Microbial Scan				
Analyte	ATL*	RDL*	Result	Unit
Total Aerobic Microbial Count	NMT 500 000	< 5	< 5	CFU/g
Method: E.P. 2.6.12 Analysis Date: Nov. 15, 2023 – Nov. 18, 2023				
Total Combined Yeasts and Molds	NMT 50 000	< 5	< 5	CFU/g
Method: E.P. 2.6.12 Analysis Date: Nov. 15, 2023 – Nov. 20, 2023				
Bile Tolerant Gram Negatives	NMT 10 000	< 10	< 10	CFU/g
Method: E.P. 2.6.31 Analysis Date: Nov. 15, 2023 – Nov. 18, 2023				
<i>Salmonella</i> spp.	Absent	Absent	Absent	in 25 g
Method: E.P. 2.6.31 Analysis Date: Nov. 15, 2023 – Nov. 18, 2023				
<i>Escherichia coli</i>	Absent	Absent	Absent	in 1 g
Method: E.P. 2.6.31 Analysis Date: Nov. 15, 2023 – Nov. 19, 2023				

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## Cannabinoid Profile

<b>Total THC</b>	0.209	%(w/w)
<b>Total CBD</b>	10.197	%(w/w)

Analyte	Specification	LOD <sup>##</sup> % (w/w)	LOQ <sup>##</sup> % (w/w)	Result mg/g	Result % (w/w)
CBDVA	Report	0.002	0.005	ND	ND
CBDV	Report	0.004	0.013	0.7455	0.075
CBDA	Report	0.002	0.006	ND	ND
CBGA	Report	0.002	0.005	ND	ND
CBG	Report	0.004	0.011	1.6106	0.161
CBD	Report	0.004	0.012	101.9726	10.197
THCV	Report	0.004	0.012	ND	ND
THCVA	Report	0.002	0.005	ND	ND
CBN	Report	0.004	0.012	0.6609	0.066
Delta-9-THC	Report	0.004	0.011	2.0872	0.209
Delta-8-THC	Report	0.004	0.012	ND	ND
CBC	Report	0.003	0.009	1.1490	0.115
Delta-9-THCA	Report	0.003	0.008	ND	ND
CBCA	Report	0.002	0.006	ND	ND
Total THC**	Report	0.004	0.011	2.0872	0.209
Total CBD***	Report	0.004	0.012	101.9726	10.197

\*\* Total THC = delta9-THC + 0.877 × THCA-A; \*\*\* Total CBD = CBD + 0.877 × CBDA

ND = Not Detected (< LOD)

Method: TM-CA-002

Analysis Date: Nov. 20, 2023 – Nov. 21, 2023

## Heavy metals

Analyte	ATL (NMT)*	LOD <sup>##</sup>	LOQ <sup>##</sup>	Result	Unit
Arsenic	0.2	0.033	0.11	ND	ppm
Cadmium	0.3	0.018	0.06	ND	ppm
Mercury	0.1	0.023	0.078	ND	ppm
Lead	0.5	0.051	0.17	ND	ppm

ND = Not detected (< LOD)

Method: TM-CA-008

Analysis Date: Nov. 21, 2023 – Nov. 21, 2023



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<b>Mycotoxins</b>					
Analyte	ATL (NMT)*	LOD <sup>##</sup>	LOQ <sup>##</sup>	Result	Unit
Aflatoxin B1	2	0.1	1	ND	ppb
Aflatoxin B2	Report	0.1	1	ND	ppb
Aflatoxin G1	Report	0.1	1	ND	ppb
Aflatoxin G2	Report	0.1	1	ND	ppb
Total Aflatoxins(B1+B2+G1+G2)	4			ND	ppb
Ochratoxin A	20	0.1	1.3	ND	ppb
ND = Not detected (< LOD)					
Method: TM-CA-001					
Analysis Date: Nov. 16, 2023 – Nov. 17, 2023					

<b>Pesticides – Health Canada</b>					
Analyte	ATL (NMT)*	LOD <sup>##</sup>	LOQ <sup>##</sup>	Result	Unit
Abamectin	0.1	0.05	0.1	ND	ppm
Acephate	0.02	0.005	0.01	ND	ppm
Acequinocyl	0.03	0.005	0.01	ND	ppm
Acetamiprid	0.1	0.005	0.01	ND	ppm
Aldicarb	1	0.01	0.05	ND	ppm
Allethrin	0.2	0.05	0.1	ND	ppm
Azadirachtin	1	0.2	0.5	ND	ppm
Azoxystrobin	0.02	0.005	0.01	ND	ppm
Benzovindiflupyr	0.02	0.005	0.01	ND	ppm
Bifenazate	0.02	0.005	0.01	ND	ppm
Bifenthrin	1	0.01	0.05	ND	ppm
Boscalid	0.02	0.005	0.01	ND	ppm
Buprofezin	0.02	0.005	0.01	ND	ppm
Carbaryl	0.05	0.005	0.01	ND	ppm
Carbofuran	0.02	0.005	0.01	ND	ppm
Chlorantraniliprole	0.02	0.005	0.01	ND	ppm
Chlorphenapyr	0.05	0.01	0.05	ND	ppm
Chlorpyrifos	0.04	0.005	0.01	ND	ppm
Clofentezine	0.02	0.005	0.01	ND	ppm
Clothianidin	0.05	0.005	0.01	ND	ppm
Coumaphos	0.02	0.005	0.01	ND	ppm
Cyantraniliprole	0.02	0.005	0.01	ND	ppm
Cyfluthrin	0.2	0.05	0.2	ND	ppm
Cypermethrin	0.3	0.05	0.2	ND	ppm
Cyprodinil	0.25	0.005	0.01	ND	ppm
Daminozide	0.1	0.01	0.05	ND	ppm

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Deltamethrin	0.5	0.05	0.2	ND	ppm
Diazinon	0.02	0.005	0.01	ND	ppm
Dichlorvos	0.1	0.005	0.01	ND	ppm
Dimethoate	0.02	0.005	0.01	ND	ppm
Dimethomorph	0.05	0.005	0.01	ND	ppm
Dinotefuran	0.1	0.005	0.01	ND	ppm
Dodemorph	0.05	0.005	0.01	ND	ppm
Endosulfan sulfate	0.05	0.01	0.05	ND	ppm
Endosulfan-alpha	0.2	0.05	0.1	ND	ppm
Endosulfan-beta	0.05	0.01	0.05	ND	ppm
Ethoprophos	0.02	0.005	0.01	ND	ppm
Etofenprox	0.05	0.005	0.01	ND	ppm
Etoxazole	0.02	0.005	0.01	ND	ppm
Etridiazole	0.03	0.005	0.01	ND	ppm
Fenoxycarb	0.02	0.005	0.01	ND	ppm
Fenpyroximate	0.02	0.005	0.01	ND	ppm
Fensulfothion	0.02	0.005	0.01	ND	ppm
Fenthion	0.02	0.005	0.01	ND	ppm
Fenvalerate	0.1	0.01	0.05	ND	ppm
Fipronil	0.06	0.005	0.01	ND	ppm
Flonicamid	0.05	0.005	0.01	ND	ppm
Fludioxonil	0.02	0.005	0.01	ND	ppm
Fluopyram	0.02	0.005	0.01	ND	ppm
Hexythiazox	0.01	0.005	0.01	ND	ppm
Imazalil	0.05	0.005	0.01	ND	ppm
Imidacloprid	0.02	0.005	0.01	ND	ppm
Iprodione	1	0.05	0.2	ND	ppm
Kinoprene	0.5	0.01	0.05	ND	ppm
Kresoxim-methyl	0.02	0.005	0.01	ND	ppm
Malathion	0.02	0.005	0.01	ND	ppm
Metalaxyl	0.02	0.005	0.01	ND	ppm
Methiocarb	0.02	0.005	0.01	ND	ppm
Methomyl	0.05	0.005	0.01	ND	ppm
Methoprene	2	0.2	0.5	ND	ppm
Mevinphos	0.05	0.005	0.01	ND	ppm
MGK-264	0.05	0.005	0.01	ND	ppm
Myclobutanil	0.02	0.005	0.01	ND	ppm
Naled	0.1	0.05	0.1	ND	ppm
Novaluron	0.05	0.005	0.01	ND	ppm
Oxamyl	3	0.05	0.2	ND	ppm

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Paclobutrazol	0.02	0.005	0.01	ND	ppm
Parathion-methyl	0.05	0.005	0.01	ND	ppm
Permethrin	0.5	0.05	0.2	ND	ppm
Phenothrin	0.05	0.005	0.01	ND	ppm
Phosmet	0.02	0.005	0.01	ND	ppm
Piperonyl butoxide	0.2	0.005	0.01	ND	ppm
Pirimicarb	0.02	0.005	0.01	ND	ppm
Prallethrin	0.05	0.01	0.05	ND	ppm
Propiconazole	0.1	0.005	0.01	ND	ppm
Propoxur	0.02	0.005	0.01	ND	ppm
Pyraclostrobin	0.02	0.005	0.01	ND	ppm
Pyrethrins	0.05	0.005	0.01	ND	ppm
Pyridaben	0.05	0.005	0.01	ND	ppm
Quintozene	0.02	0.005	0.01	ND	ppm
Resmethrin	0.1	0.01	0.02	ND	ppm
Spinetoram	0.02	0.005	0.01	ND	ppm
Spinosad	0.1	0.005	0.01	ND	ppm
Spirodiclofen	0.25	0.05	0.2	ND	ppm
Spiromesifen	3	0.01	0.05	ND	ppm
Spirotetramat	0.02	0.005	0.01	ND	ppm
Spiroxamine	0.1	0.005	0.01	ND	ppm
Tebuconazole	0.05	0.005	0.01	ND	ppm
Tebufenozide	0.02	0.005	0.01	ND	ppm
Teflubenzuron	0.05	0.005	0.01	ND	ppm
Tetrachlorvinphos	0.02	0.005	0.01	ND	ppm
Tetramethrin	0.1	0.005	0.01	ND	ppm
Thiacloprid	0.02	0.005	0.01	ND	ppm
Thiamethoxam	0.02	0.005	0.01	ND	ppm
Thiophanate-methyl	0.05	0.005	0.01	ND	ppm
Trifloxystrobin	0.02	0.005	0.01	ND	ppm

ND = Not Detected (< LOD)

Method: TM-CA-001

Analysis Date: Nov. 16, 2023 – Nov. 17, 2023

## Terpene Profile

0.119 % (w/w)

**Total Terpene**

Analyte	Specification	LOD <sup>##</sup>	LOQ <sup>##</sup>	Result	Unit
(-)-alpha-Bisabolol	Report	0.0025	0.005	0.053	% (w/w)

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(-)-Guaiol	Report	0.0025	0.005	0.027	% (w/w)
(-)-Caryophyllene oxide	Report	0.0025	0.005	0.017	% (w/w)
beta-Caryophyllene	Report	0.0025	0.005	0.011	% (w/w)
alpha-Humulene	Report	0.0025	0.005	0.006	% (w/w)
trans-Nerolidol	Report	0.0025	0.005	0.005	% (w/w)
alpha-Pinene	Report	0.0025	0.005	ND	% (w/w)
Camphene	Report	0.0025	0.005	ND	% (w/w)
Sabinene	Report	0.0025	0.005	ND	% (w/w)
(-)-beta-Pinene	Report	0.0025	0.005	ND	% (w/w)
beta-Myrcene	Report	0.0025	0.005	ND	% (w/w)
R-(-)-alpha-Phellandrene	Report	0.0025	0.005	ND	% (w/w)
(1S)-(+)-3-Carene	Report	0.0025	0.005	ND	% (w/w)
alpha-Terpinene	Report	0.0025	0.005	ND	% (w/w)
m-Isopropyltoluene	Report	0.0025	0.005	ND	% (w/w)
p-Isopropyltoluene (p-Cymene)	Report	0.0025	0.005	ND	% (w/w)
d-Limonene	Report	0.0025	0.005	ND	% (w/w)
Eucalyptol	Report	0.0025	0.005	ND	% (w/w)
o-Isopropyltoluene	Report	0.0025	0.005	ND	% (w/w)
Ocimene	Report	0.0025	0.005	ND	% (w/w)
gamma-Terpinene	Report	0.0025	0.005	ND	% (w/w)
Sabinene Hydrate	Report	0.0025	0.005	ND	% (w/w)
Terpinolene	Report	0.0025	0.005	ND	% (w/w)
Fenchone	Report	0.0025	0.005	ND	% (w/w)
Linalool	Report	0.0025	0.005	ND	% (w/w)
(-)-alpha-Thujone	Report	0.0025	0.005	ND	% (w/w)
(1R)-endo-(+)-Fenchyl alcohol	Report	0.0025	0.005	ND	% (w/w)
(-)-Isopulegol	Report	0.0025	0.005	ND	% (w/w)
Camphor	Report	0.0025	0.005	ND	% (w/w)
Menthone	Report	0.0025	0.005	ND	% (w/w)
Isoborneol	Report	0.0025	0.005	ND	% (w/w)
L(-)-Borneol+ (+)-Borneol	Report	0.0025	0.005	ND	% (w/w)
Menthol	Report	0.0025	0.005	ND	% (w/w)
d-Valerolactam	Report	0.0025	0.005	ND	% (w/w)
Terpinene-4-ol	Report	0.0025	0.005	ND	% (w/w)
alpha-Terpineol	Report	0.0025	0.005	ND	% (w/w)
Safranal	Report	0.0025	0.005	ND	% (w/w)
Octyl acetate	Report	0.0025	0.005	ND	% (w/w)
(-)-Verbenone	Report	0.0025	0.005	ND	% (w/w)
Citronellol	Report	0.0025	0.005	ND	% (w/w)
Nerol	Report	0.0025	0.005	ND	% (w/w)
(R)-(+)-Pulegone	Report	0.0025	0.005	ND	% (w/w)
(S)-(+)-Carvone	Report	0.0025	0.005	ND	% (w/w)

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Geraniol	Report	0.0025	0.005	ND	% (w/w)
Piperitone	Report	0.0025	0.005	ND	% (w/w)
Citral	Report	0.0025	0.005	ND	% (w/w)
Thymol	Report	0.0025	0.005	ND	% (w/w)
Isobornyl acetate	Report	0.0025	0.005	ND	% (w/w)
Carvacrol	Report	0.0025	0.005	ND	% (w/w)
Geranyl Acetate	Report	0.0025	0.005	ND	% (w/w)
(-)-a-Cedrene	Report	0.0025	0.005	ND	% (w/w)
trans-beta-Farnesene	Report	0.0025	0.005	ND	% (w/w)
Valencene	Report	0.0025	0.005	ND	% (w/w)
cis-Nerolidol	Report	0.0025	0.005	ND	% (w/w)
Cedrol	Report	0.0025	0.005	ND	% (w/w)
Farnesol-1	Report	0.0025	0.005	ND	% (w/w)
Farnesol-2	Report	0.0025	0.005	ND	% (w/w)
Phytane	Report	0.0025	0.005	ND	% (w/w)
(+)-Nootkatone	Report	0.0025	0.005	ND	% (w/w)
Squalene	Report	0.0025	0.005	ND	% (w/w)
Total Terpene	Report			0.119	% (w/w)
ND = Not Detected (< LOD)					
Method: TM-CA-005					
Analysis Date: Nov. 20, 2023 – Nov. 21, 2023					

\* RDL = Reporting Detection Limit; ATL (NMT) = Action Level (Not More Than)

## LOQ = Limit of Quantification; LOD = Limit of Detection

Results shown in this report relate solely to the item submitted for analysis. Any opinions/interpretations expressed on this report are given independent of the laboratory's scope of accreditation. All results are reported on an "As Received" basis unless otherwise stated. PPB Analytical Inc. is responsible for all the information provided in the report, except when information is provided by the customer (marked as #). Reports shall not be reproduced except in full without written permission of PPB Analytical Inc. all work done in accordance with PPB Analytical Inc. Terms and Conditions. For further details about the performing labs, please contact customer service at PPB Analytical Inc.

Signature:

Cheuk Kuen (Isaac) Lai

Title:

Quality Assurance Manager

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