



Certificate of Analysis

Client Name Retro Cannabis & Hemp Extracts
Client Address #200 25 4th Street, Charlottetown, PE C1E 2B4
Client Contact Andrew Costa (andrew@retrocannabis.ca)

PPB Analytical Sample ID 3023_0067
Sample Receiving Date Mar. 14, 2023
Sample Registration Date Mar. 14, 2023
Receiving Condition Ambient
Client Sample Code# R00022-BB
Sample Description# Honey Oil
Sample size 45 g
Test Report Date Mar. 21, 2023

Microbial Scan			
Analyte	Specification	Result	Unit
Total Aerobic Microbial Count	NMT 50 000	<10	CFU/g
Method: EP 2.6.12 Analysis Date: Mar. 15, 2023 – Mar.18, 2023			
Total Combined Yeasts and Molds	NMT 500	<5	CFU/g
Method: EP 2.6.12 Analysis Date: Mar. 15, 2023 – Mar.20, 2023			
Bile-tolerant Gram-negative bacteria	NMT 100	<10	CFU/g
Method: EP 2.6.31 Analysis Date: Mar. 15, 2023 – Mar.17, 2023			
<i>Salmonella</i> spp.	Absent	Absent	/25 g
Method: EP 2.6.31 Analysis Date: Mar. 15, 2023 – Mar.21, 2023			
<i>Escherichia coli</i>	Absent	Absent	/1 g
Method: EP 2.6.31 Analysis Date: Mar. 15, 2023 – Mar.21, 2023			



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Cannabinoid Profile

74.6161 %(w/w) Total THC	0.1840 %(w/w) Total CBD
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Analyte	Specification	Result	Unit	Result	Unit
CBDVA	Report	ND	mg/g	ND	% (w/w)
CBDV	Report	ND	mg/g	ND	% (w/w)
CBDA	Report	ND	mg/g	ND	% (w/w)
CBGA	Report	4.1604	mg/g	0.4160	% (w/w)
CBG	Report	17.5015	mg/g	1.7502	% (w/w)
CBD	Report	1.8404	mg/g	0.1840	% (w/w)
THCV	Report	2.0279	mg/g	0.2028	% (w/w)
THCVA	Report	2.2988	mg/g	0.2299	% (w/w)
CBN	Report	11.1847	mg/g	1.1185	% (w/w)
Delta-9-THC	Report	735.2409	mg/g	73.5241	% (w/w)
Delta-8-THC	Report	ND	mg/g	ND	% (w/w)
CBC	Report	12.8792	mg/g	1.2879	% (w/w)
Delta-9-THCA	Report	12.4521	mg/g	1.2452	% (w/w)
CBCA	Report	2.0462	mg/g	0.2046	% (w/w)
Total THC*	Report	746.1614	mg/g	74.6161	% (w/w)
Total CBD**	Report	1.8404	mg/g	0.1840	% (w/w)

* Total THC = delta9-THC + 0.877 × THCA-A

** Total CBD = CBD + 0.877 × CBDA

LOQ = 0.1000 mg/g = 0.0100% (w/w); LOD = 0.0300 mg/g = 0.0030% (w/w); ND = Not Detected (< LOD)

Method: TM-CA-002

Analysis Date: Mar. 14, 2023 – Mar. 15, 2023

Heavy metals

Analyte	Specification	Result	Unit
Arsenic	1.5	ND (< LOD = 0.0330 µg/g)	µg/g
Cadmium	0.5	ND (< LOD = 0.0180 µg/g)	µg/g
Mercury	3.0	ND (< LOD = 0.0230 µg/g)	µg/g
Lead	0.5	ND (< LOD = 0.0510 µg/g)	µg/g

ND = Not detected (< LOD)

Method: TM-CA-008

Analysis Date: Mar. 13, 2023 – Mar. 15, 2023

Mycotoxins

Analyte	Specification	Result	Unit
Aflatoxin B1	< 2	ND (< LOD = 0.3 ppb)	ppb
Aflatoxin B2	Report	ND (< LOD = 0.3 ppb)	ppb
Aflatoxin G1	Report	ND (< LOD = 0.3 ppb)	ppb



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Aflatoxin G2	Report	ND (< LOD = 0.3 ppb)	ppb
Total Aflatoxins (B1+B2+G1+G2)	< 4	ND	ppb
Ochratoxin A	Report	ND (< LOD = 0.3 ppb)	ppb
ND = Not detected (< LOD) Method: TM-CA-004 Analysis Date: Mar. 14, 2023 – Mar. 15, 2023			

Foreign Matter		
Analyte	Specification	Result
Foreign Matter	Report	Not detected
Method: In-house method Analysis Date: Mar. 14, 2023 – Mar. 14, 2023		

Residual Solvent			
Analyte	Specification	Result	Unit
Acetone	< 5000	ND	µg/g
Anisole	< 5000	ND	µg/g
1-Butanol	< 5000	ND	µg/g
2-Butanol	< 5000	ND	µg/g
Butane	< 5000	ND	µg/g
Butyl acetate	< 5000	ND	µg/g
Tert-Butylmethyl ether	< 5000	ND	µg/g
Dimethyl Sulfoxide	< 5000	ND	µg/g
Ethanol	< 5000	ND	µg/g
Ethyl acetate	< 5000	ND	µg/g
Ethyl ether	< 5000	ND	µg/g
Ethyl formate	< 5000	ND	µg/g
Heptane	< 5000	ND	µg/g
Isobutyl acetate	< 5000	ND	µg/g
Isopropyl acetate	< 5000	ND	µg/g
Methyl acetate	< 5000	ND	µg/g
3-Methyl-1-butanol	< 5000	ND	µg/g
Methyl ethyl ketone	< 5000	ND	µg/g
2-Methyl-1-propanol	< 5000	ND	µg/g
Pentane	< 5000	ND	µg/g
1-Pentanol	< 5000	ND	µg/g
1-Propanol	< 5000	ND	µg/g
2-Propanol	< 5000	ND	µg/g
Propane	< 5000	ND	µg/g
Propyl acetate	< 5000	ND	µg/g



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Triethylamine	< 5000	ND	µg/g
ND = Not detected Method: TM-CA-010 Analysis Date: Mar. 14, 2023 – Mar. 20, 2023			

Terpene Profile

6.7916 %(w/w)
Total Terpene

Analyte	Specification	Result	Unit
alpha-Pinene	Report	0.0987	% (w/w)
Camphene	Report	0.0224	% (w/w)
Sabinene	Report	ND	% (w/w)
(-)-beta-Pinene	Report	0.0960	% (w/w)
beta-Myrcene	Report	0.2803	% (w/w)
R-(-)-alpha-Phellandrene	Report	< LOQ	% (w/w)
delta-3-carene	Report	ND	% (w/w)
alpha-Terpinene	Report	< LOQ	% (w/w)
m-Cymene	Report	ND	% (w/w)
p-Cymene	Report	ND	% (w/w)
d-Limonene	Report	0.8829	% (w/w)
Eucalyptol	Report	0.0250	% (w/w)
o-Cymene	Report	ND	% (w/w)
Ocimene	Report	< LOQ	% (w/w)
gamma-Terpinene	Report	< LOQ	% (w/w)
Sabinene hydrate	Report	0.0193	% (w/w)
Terpinolene	Report	0.0141	% (w/w)
Linalool	Report	0.3096	% (w/w)
(1R)-endo-(+)-Fenchyl alcohol	Report	0.1402	% (w/w)
(-)-Isopulegol	Report	< LOQ	% (w/w)
Isoborneol	Report	< LOQ	% (w/w)
L(-)-Borneol + (+)-Borneol	Report	0.0390	% (w/w)
Menthol	Report	ND	% (w/w)
Terpinen-4-ol	Report	< LOQ	% (w/w)
alpha-Terpineol	Report	0.1731	% (w/w)
Nerol + Citronellol	Report	< LOQ	% (w/w)
Geraniol	Report	< LOQ	% (w/w)
Thymol	Report	< LOQ	% (w/w)
Carvacrol	Report	< LOQ	% (w/w)



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(-)-alpha-Cedrene	Report	ND	% (w/w)
beta-Caryophyllene	Report	2.5126	% (w/w)
trans-beta-Farnesene	Report	0.3482	% (w/w)
alpha-Humulene	Report	0.8781	% (w/w)
Valencene	Report	0.0386	% (w/w)
cis-Nerolidol	Report	0.0527	% (w/w)
trans-Nerolidol	Report	0.1176	% (w/w)
(-)-Guaiol	Report	0.0978	% (w/w)
Cedrol	Report	0.0533	% (w/w)
(-)-alpha-Bisabolol	Report	0.5257	% (w/w)
Farnesol 1	Report	ND	% (w/w)
Farnesol 2	Report	0.0354	% (w/w)
Phytane	Report	0.0179	% (w/w)
Squalene	Report	0.0131	% (w/w)
Total Terpene	Report	6.7916	% (w/w)
LOQ = 0.0125% (w/w); LOD = 0.0025% (w/w) ND = Not Detected (< LOD) Method: TM-CA-005 Analysis Date: Mar. 14, 2023 – Mar. 16, 2023			

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Cheuk Kuen (Isaac) Lai

Title:

Quality Assurance Manager