



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_0531
 Sample Receiving Date Sep. 14, 2023
 Sample Registration Date Sep. 14, 2023
 Receiving Condition Ambient
 Client Sample Code# 230908-PH-00-BK
 Sample Description# Perfect Harmony, sample 2, 230908-PH-00-BK
 Sample size 50 g
 Test Report Date Sep. 21, 2023

Microbial Scan				
Analyte	ATL*	RDL*	Result	Unit
Total Aerobic Microbial Count	NMT 50 000	< 5	< 5	CFU/g
Method: E.P. 2.6.12				
Analysis Date: Sep. 14, 2023 – Sep. 18, 2023				

Total Combined Yeasts and Molds	NMT 500	< 5	< 5	CFU/g
Method: E.P. 2.6.12				
Analysis Date: Sep. 14, 2023 – Sep. 19, 2023				

Bile Tolerant Gram Negatives	NMT 100	< 10	< 10	CFU/g
Method: E.P. 2.6.31				
Analysis Date: Sep. 14, 2023 – Sep. 16, 2023				

<i>Salmonella</i> spp.	Absent	Absent	Absent	in 25 g
Method: E.P. 2.6.31				
Analysis Date: Sep. 14, 2023 – Sep. 18, 2023				

<i>Escherichia coli</i>	Absent	Absent	Absent	in 1 g
Method: E.P. 2.6.31				
Analysis Date: Sep. 14, 2023 – Sep. 18, 2023				



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Cannabinoid Profile

Total THC	37.05	%(w/w)
Total CBD	38.75	%(w/w)

Analyte	Specification	LOD ^{##} % (w/w)	LOQ ^{##} % (w/w)	Result mg/g	Result % (w/w)
CBDVA	Report	0.002	0.005	ND	ND
CBDV	Report	0.004	0.013	5.574	0.56
CBDA	Report	0.002	0.006	2.801	0.28
CBGA	Report	0.002	0.005	2.216	0.22
CBG	Report	0.004	0.011	11.042	1.10
CBD	Report	0.004	0.012	384.996	38.50
THCV	Report	0.004	0.012	2.532	0.25
THCVA	Report	0.002	0.005	ND	ND
CBN	Report	0.004	0.012	5.946	0.59
Delta-9-THC	Report	0.004	0.011	346.473	34.65
Delta-8-THC	Report	0.004	0.012	ND	ND
CBC	Report	0.003	0.009	11.607	1.16
Delta-9-THCA	Report	0.003	0.008	27.398	2.74
CBCA	Report	0.002	0.006	ND	ND
Total THC**	Report	0.004	0.011	370.501	37.05
Total CBD***	Report	0.004	0.012	387.452	38.75

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

ND = Not Detected (< LOD)

Method: TM-CA-002

Analysis Date: Sep. 19, 2023 – Sep. 20, 2023

Heavy metals

Analyte	ATL (NMT)*	LOD ^{##}	LOQ ^{##}	Result	Unit
Arsenic	0.2	0.033	0.11	ND	ppm
Cadmium	0.2	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: Sep. 19, 2023 – Sep. 20, 2023

Mycotoxins

Analyte	ATL (NMT)*	LOD ^{##}	LOQ ^{##}	Result	Unit
Aflatoxin B1	2	0.1	1	ND	ppb
Aflatoxin B2	Report	0.1	1	ND	ppb

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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: Sep. 19, 2023 – Sep. 21, 2023					

Pesticides – Health Canada					
Analyte	ATL (NMT)*	LOD ^{##}	LOQ ^{##}	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
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

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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	< LOQ	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
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

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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: Sep. 19, 2023 – Sep. 21, 2023

Residual Solvent			
Analyte	Specification	Result	Unit
Acetone	< 5000	ND	ppm
Anisole	< 5000	ND	ppm
1-Butanol	< 5000	ND	ppm
2-Butanol	< 5000	ND	ppm
Butane	< 5000	ND	ppm
Butyl acetate	< 5000	ND	ppm
Tert-Butylmethyl ether	< 5000	ND	ppm
Dimethyl Sulfoxide	< 5000	ND	ppm
Ethanol	< 5000	ND	ppm
Ethyl acetate	< 5000	ND	ppm
Ethyl ether	< 5000	ND	ppm

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Ethyl formate	< 5000	ND	ppm
Heptane	< 5000	ND	ppm
Isobutyl acetate	< 5000	ND	ppm
Isopropyl acetate	< 5000	ND	ppm
Methyl acetate	< 5000	ND	ppm
3-Methyl-1-butanol	< 5000	ND	ppm
Methyl ethyl ketone	< 5000	ND	ppm
2-Methyl-1-propanol	< 5000	ND	ppm
Pentane	< 5000	ND	ppm
1-Pentanol	< 5000	ND	ppm
1-Propanol	< 5000	ND	ppm
2-Propanol	< 5000	ND	ppm
Propane	< 5000	ND	ppm
Propyl acetate	< 5000	ND	ppm
Triethylamine	< 5000	ND	ppm
ND = Not Detected (< LOD)			
Method: TM-CA-010			
Analysis Date: Sep. 18, 2023 – Sep. 20, 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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