

CERTIFICATE OF ANALYSIS

SAMPLE INFORMATION			
Client:	Retro Cannabis and Hemp Extracts	Vivariant Sample #:	VV-23-00621
Client Address:	25 Fourth street, Suite 200 Charlottetown, PE C1E2B4	Sample Matrix Type:	Extract
		Sample Matrix Subtype:	Oil
		Sample ID (Name):	R00167-S2
		Lot/Batch #:	R00167-BC
		Date Sample Collected:	2023 Jul 25
Contact Name:	Ryan Lowther/Kyle MacDonald	Strain Name:	Perfect Harmony
Contact Email:	ryan@retrocannabis.ca, kyle@retroextracts.com	Sample Receipt Date:	2023 Jul 27

Revision #:	0	Sample Comments:	
Report Prepared On:	2023 Aug 04		NA

POTENCY	
Method:	SOP-01-002-09
Units:	mg/g
Results:	Report values

Analyte	Result	Limit of Quantitation	Client Specifications
CBD	359.37	5.00	Report
CBDA	< 3.75	3.75	Report
Total Potential CBD	359.37	N.A	Report
d9THC	326.45	3.75	Report
THCA	29.22	3.75	Report
Total Potential THC	352.07	N.A	Report

TERPENES	
Method:	SOP-01-008-01
Units:	% wt.
Results:	Report values

Analyte	Result	Limit of Quantitation	Client Specifications
Guaiol	0.030	0.004%	Report
Cedrol	0.039	0.004%	Report
trans-Nerolidol	0.039	0.004%	Report
cis-Nerolidol	0.047	0.004%	Report
Caryophyllene oxide	0.060	0.004%	Report
Linalool	0.069	0.004%	Report
alpha-Pinene	0.088	0.004%	Report
Valencene	0.096	0.004%	Report
(R)-(+)-Limonene	0.221	0.004%	Report
alpha-Bisabolol	0.396	0.004%	Report

alpha-Humulene	0.450	0.004%	Report
Ocimene	0.499	0.004%	Report
trans-Caryophyllene	0.965	0.004%	Report
Farnesene	1.401	0.004%	Report
beta-Myrcene	1.501	0.004%	Report
Total terpenes	5.902	0.004%	Report
Camphene	<LOQ	0.004%	Report
Sabinene	<LOQ	0.004%	Report
beta-Pinene	<LOQ	0.004%	Report
p-Mentha-1,5-diene	<LOQ	0.004%	Report
(1S)-(+)-3-Carene	<LOQ	0.004%	Report
alpha-Terpinene	<LOQ	0.004%	Report
Eucalyptol	<LOQ	0.004%	Report
gamma-Terpinene	<LOQ	0.004%	Report
Sabinene hydrate	<LOQ	0.004%	Report
Terpinolene	<LOQ	0.004%	Report
Fenchone	<LOQ	0.004%	Report
(1R)-Endo-(+)-fenchyl alcohol	<LOQ	0.004%	Report
Camphor	<LOQ	0.004%	Report
Isopulegol	<LOQ	0.004%	Report
Isoborneol	<LOQ	0.004%	Report
Borneol	<LOQ	0.004%	Report
Hexahydrothymol	<LOQ	0.004%	Report
Terpineol	<LOQ	0.004%	Report
Nerol	<LOQ	0.004%	Report
Geraniol	<LOQ	0.004%	Report
Pulegone	<LOQ	0.004%	Report
Geranyl acetate	<LOQ	0.004%	Report
alpha-Cedrene	<LOQ	0.004%	Report

PESTICIDES	
Date Tested:	2023-JUL-28
Method:	LAB-MTD-010
Equipment:	LC-MS/MS & GC-MS/MS
Date of Last Validation:	2023-05-16
Units:	ppm
Results:	Met specifications

Analyte	Result	Limit of Quantitation	Client Specifications
Abamectin	< LOQ	0.25	0.25
Acephate	< LOQ	0.05	0.05
Acequinocyl	< LOQ	0.5	0.5
Acetamiprid	< LOQ	0.05	0.05
Aldicarb	< LOQ	0.5	0.5

Allethrin	< LOQ	0.1	0.1
Azadirachtin	< LOQ	0.5	0.5
Azoxystrobin	< LOQ	0.01	0.01
Benzovindiflupyr	< LOQ	0.01	0.01
Bifenazate	< LOQ	0.01	0.01
Bifenthrin	< LOQ	0.25	0.25
Boscalid	< LOQ	0.01	0.01
Buprofezin	< LOQ	0.25	0.25
Carbaryl	< LOQ	0.025	0.025
Carbofuran	< LOQ	0.01	0.01
Chlorantraniliprole	< LOQ	0.25	0.25
Chlorphenapyr	< LOQ	1.5	1.5
Chlorpyrifos	< LOQ	0.5	0.5
Clofentezine	< LOQ	0.01	0.01
Clothianidin	< LOQ	0.025	0.025
Coumaphos	< LOQ	0.01	0.01
Cyantranilipole	< LOQ	0.01	0.01
Cyfluthrin	< LOQ	1.25	1.25
Cypermethrin	< LOQ	0.5	0.5
Cyprodinil	< LOQ	0.01	0.01
Daminozide	< LOQ	0.25	0.25
Deltamethrin	< LOQ	0.25	0.25
Diazinon	< LOQ	0.25	0.25
Dichlorvos	< LOQ	0.05	0.05
Dimethoate	< LOQ	0.01	0.01
Dimethomorph	< LOQ	0.25	0.25
Dinotefuran	< LOQ	0.05	0.05
Dodemorph	< LOQ	0.25	0.25
Endosulfan-alpha	< LOQ	2.5	2.5
Endosulfan-beta	< LOQ	2.5	2.5
Endosulfan sulfate	< LOQ	2.5	2.5
Ethoprophos	< LOQ	0.01	0.01
Etofenprox	< LOQ	0.25	0.25
Etoxazole	< LOQ	0.25	0.25
Etridiazol	< LOQ	0.15	0.15
Fenoxycarb	< LOQ	0.01	0.01
Fenpyroximate	< LOQ	0.25	0.25
Fensulfothion	< LOQ	0.01	0.01

Fenthion	< LOQ	0.01	0.01
Fenvalerate	< LOQ	0.5	0.5
Fipronil	< LOQ	0.01	0.01
Flonicamid	< LOQ	0.025	0.025
Fludioxonil	< LOQ	0.01	0.01
Fluopyram	< LOQ	0.01	0.01
Hexythiazox	< LOQ	0.25	0.25
Imazalil	< LOQ	0.01	0.01
Imidacloprid	< LOQ	0.01	0.01
Iprodione	< LOQ	0.5	0.5
Kinoprene	< LOQ	1.25	1.25
Kresoxim-methyl	< LOQ	0.15	0.15
Malathion	< LOQ	0.01	0.01
Metalaxyl	< LOQ	0.01	0.01
Methiocarb	< LOQ	0.01	0.01
Methomyl	< LOQ	0.025	0.025
Methoprene	< LOQ	0.25	0.25
Methyl parathion	< LOQ	0.25	0.25
Mevinphos	< LOQ	0.025	0.025
MGK-264	< LOQ	0.25	0.25
Myclobutanil	< LOQ	0.01	0.01
Naled	< LOQ	0.25	0.25
Novaluron	< LOQ	0.025	0.025
Oxamyl	< LOQ	1.5	1.5
Paclobutrazol	< LOQ	0.01	0.01
Permethrin	< LOQ	0.5	0.5
Phenothrin	< LOQ	0.25	0.25
Phosmet	< LOQ	0.25	0.25
Piperonyl butoxide	< LOQ	1.25	1.25
Pirimicarb	< LOQ	0.01	0.01
Prallethrin	< LOQ	0.25	0.25
Propiconazole	< LOQ	0.25	0.25
Propoxur	< LOQ	0.01	0.01
Pyraclostrobin	< LOQ	0.01	0.01
Pyrethrins	< LOQ	0.25	0.25
Pyridaben	< LOQ	0.02	0.02
Quintozene	< LOQ	0.5	0.5
Resmethrin	< LOQ	0.05	0.05

Spinetoram	< LOQ	0.01	0.01
Spinosad	< LOQ	0.01	0.01
Spirodiclofen	< LOQ	0.25	0.25
Spiromesifen	< LOQ	0.25	0.25
Spirotetramat	< LOQ	0.01	0.01
Spiroxamine	< LOQ	0.25	0.25
Tebuconazole	< LOQ	0.01	0.01
Tebufenozide	< LOQ	0.01	0.01
Teflubenzuron	< LOQ	0.025	0.025
Tetrachlorvinphos	< LOQ	0.01	0.01
Tetramethrin	< LOQ	0.25	0.25
Thiacloprid	< LOQ	0.01	0.01
Thiamethoxam	< LOQ	0.01	0.01
Thiophanate-methyl	< LOQ	0.25	0.25
Trifloxystrobin	< LOQ	0.01	0.01

METALS	
Method:	SOP-01-007-02
Units:	ppm
Results:	Met specifications

Analyte	Result	Client Specifications
Arsenic	< 0.2	< 1.5
Cadmium	< 0.2	< 0.5
Lead	< 0.5	< 0.5
Mercury (total)	< 0.1	< 3

pH		
Method:	SOP-02-025-00	
Results:	Report values	
Parameter	Result	Client Specifications
pH	5.23	Report

Foreign Matter	
Method:	EP 2.8.2
Units:	NA
Results:	Report values


Parameter	Result	Client Specifications
Foreign Matter	Absent	Report

RESIDUAL SOLVENTS	
Method:	LAB-MTD-036/SOP-01-010-00
Units:	ppm
Results:	Met specifications

Analyte	Result	Limit of Quantitation	Client Specifications
1-Butanol	< LOQ	1000	NMT 5000
1-Pentanol	< LOQ	1000	NMT 5000
1-Propanol	< LOQ	1000	NMT 5000
2-Butanol	< LOQ	1000	NMT 5000
2-Methyl-1-propanol	< LOQ	1000	NMT 5000
2-Propanol	< LOQ	1000	NMT 5000
3-Methyl-1-butanol	< LOQ	1000	NMT 5000
Acetone	< LOQ	1000	NMT 5000
Anisole	< LOQ	1000	NMT 5000
Butane	< LOQ	500	NMT 5000
Butyl acetate	< LOQ	1000	NMT 5000
Dimethyl sulfoxide	< LOQ	1000	NMT 5000
Ethanol	< LOQ	1000	NMT 5000
Ethyl acetate	< LOQ	1000	NMT 5000
Ethyl Ether	< LOQ	1000	NMT 5000
Ethyl formate	< LOQ	1000	NMT 5000
Heptane	< LOQ	1000	NMT 5000
Isobutyl acetate	< LOQ	1000	NMT 5000
Isopropyl acetate	< LOQ	1000	NMT 5000
Methyl acetate	< LOQ	1000	NMT 5000
Methyl ethyl ketone	< LOQ	1000	NMT 5000
Pentane	< LOQ	500	NMT 5000
Propane	< LOQ	1000	NMT 5000
Propyl acetate	< LOQ	1000	NMT 5000
Tert-butylmethyl ether	< LOQ	1000	NMT 5000
Triethylamine	< LOQ	1000	NMT 5000

MICROBIAL ANALYSIS	
Compendia:	EP 5.1.8
Results:	Met specifications

Test	Result	Method	Client Specifications
TAMC	<10 CFU/g	EP 2.6.12	<50,000 CFU/g
TYMC	<10 CFU/g	EP 2.6.12	<500 CFU/g
Detection of E coli	No growth	EP 2.6.31	Absent in 1g
Detection of Salmonella	No growth	EP 2.6.12	Absent in 25g
BTGN	<10 CFU/g	EP 2.6.12	<100 CFU/g



Approved by: Anand Thota
 Date Approved:
8/04/2023

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