



PPB Analytical Inc.

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

Certificate of Analysis

Client Name Vertuose Culture Inc.
Client Address 770 chemin de la riviere, Boileau, Quebec J0V 1N0
Client Contact Karine Desjardins (karine@vertuoseculture.com)

PPB Analytical Sample ID 3024_0575
Sample Receiving Date Mar. 13, 2024
Sample Registration Date Mar. 13, 2024
Receiving Condition Ambient
Client Sample Code# F-BR-2023-009
Sample Description# Chocolate Diesel, F-BR-2023-009
Sample size 50 g
Test Report Date Mar. 19, 2024

Microbial Scan				
Analyte	ATL*	RDL*	Result	Unit
Total Aerobic Microbial Count	NMT 500 000	< 5	< 5	CFU/g
Method: TM-MB-004				
Analysis Date: Mar. 14, 2024 – Mar. 14, 2024				

Total Combined Yeasts and Molds	NMT 50 000	< 5	< 5	CFU/g
Method: TM-MB-003				
Analysis Date: Mar. 14, 2024 – Mar. 14, 2024				

Bile Tolerant Gram Negatives	NMT 10 000	< 5	< 5	CFU/g
Method: TM-MB-005				
Analysis Date: Mar. 14, 2024 – Mar. 14, 2024				

<i>Salmonella spp.</i>	Absent	Absent	Absent	in 25 g
Method: TM-MB-002				
Analysis Date: Mar. 13, 2024 – Mar. 14, 2024				

<i>Escherichia coli</i>	Absent	Absent	Absent	in 1 g
Method: TM-MB-002				
Analysis Date: Mar. 13, 2024 – Mar. 14, 2024				



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Cannabinoid Profile

Total THC	28.020	%(w/w)
Total CBD	0.034	%(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	ND	ND
CBDA	Report	0.002	0.006	0.3933	0.039
CBGA	Report	0.002	0.005	11.1583	1.116
CBG	Report	0.004	0.011	1.9182	0.192
CBD	Report	0.004	0.012	ND	ND
THCV	Report	0.004	0.012	ND	ND
THCVA	Report	0.002	0.005	2.4532	0.245
CBN	Report	0.004	0.012	ND	ND
Delta-9-THC	Report	0.004	0.011	1.9067	0.191
Delta-8-THC	Report	0.004	0.012	ND	ND
CBC	Report	0.003	0.009	ND	ND
Delta-9-THCA	Report	0.003	0.008	317.3202	31.732
CBCA	Report	0.002	0.006	ND	ND
Total THC**	Report	0.004	0.011	280.1966	28.020
Total CBD***	Report	0.004	0.012	0.3449	0.034

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

ND = Not Detected (< LOD)

Method: TM-CA-002

Analysis Date: Mar. 14, 2024 – Mar. 15, 2024

Heavy metals

Analyte	ATL (NMT)*	LOD ^{##}	LOQ ^{##}	Result	Unit
Arsenic	0.2	0.033	0.11	< LOQ	ppm
Cadmium	0.3	0.018	0.06	0.063	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: Mar. 14, 2024 – Mar. 15, 2024

Loss on Drying

Analyte	Specification	Result	Unit
Loss on Drying	Report	7.95	%

ND = Not detected (< LOD)

Test Report #: 202403225-01

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Method: TM-CA-007

Analysis Date: Mar. 14, 2024 – Mar. 14, 2024

Mycotoxins					
Analyte	ATL (NMT)*	LOD ^{##}	LOQ ^{##}	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: Mar. 14, 2024 – Mar. 15, 2024

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

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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
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
Fensulfthion	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

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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
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: Mar. 14, 2024 – Mar. 15, 2024					

Terpene Profile

1.870 % (w/w)
Total Terpene

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Analyte	Specification	LOD ^{##}	LOQ ^{##}	Result	Unit
beta-Caryophyllene	Report	0.0025	0.005	0.587	% (w/w)
d-Limonene	Report	0.0025	0.005	0.480	% (w/w)
beta-Myrcene	Report	0.0025	0.005	0.272	% (w/w)
alpha-Humulene	Report	0.0025	0.005	0.183	% (w/w)
(-)-beta-Pinene	Report	0.0025	0.005	0.076	% (w/w)
(-)-alpha-Bisabolol	Report	0.0025	0.005	0.068	% (w/w)
Linalool	Report	0.0025	0.005	0.061	% (w/w)
alpha-Pinene	Report	0.0025	0.005	0.042	% (w/w)
(1R)-endo-(+)-Fenchyl alcohol	Report	0.0025	0.005	0.040	% (w/w)
alpha-Terpineol	Report	0.0025	0.005	0.029	% (w/w)
Camphene	Report	0.0025	0.005	0.012	% (w/w)
L(-)-Borneol+ (+)-Borneol	Report	0.0025	0.005	0.008	% (w/w)
trans-beta-Farnesene	Report	0.0025	0.005	0.006	% (w/w)
trans-Nerolidol	Report	0.0025	0.005	0.006	% (w/w)
Eucalyptol	Report	0.0025	0.005	< LOQ	% (w/w)
Terpinolene	Report	0.0025	0.005	< LOQ	% (w/w)
(-)-Caryophyllene oxide	Report	0.0025	0.005	< LOQ	% (w/w)
Sabinene	Report	0.0025	0.005	ND	% (w/w)
R(-)-alpha-Phellandrene	Report	0.0025	0.005	ND	% (w/w)
(IS)-(+)-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)
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)
Fenchone	Report	0.0025	0.005	ND	% (w/w)
(-)-alpha-Thujone	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)
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)
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)

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(R)-(+)-Pulegone	Report	0.0025	0.005	ND	% (w/w)
(S)-(+)-Carvone	Report	0.0025	0.005	ND	% (w/w)
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)
Valencene	Report	0.0025	0.005	ND	% (w/w)
cis-Nerolidol	Report	0.0025	0.005	ND	% (w/w)
(-)-Guaiol	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			1.870	% (w/w)

ND = Not Detected (< LOD)

Method: TM-CA-005

Analysis Date: Mar. 14, 2024 – Mar. 15, 2024

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

LOQ = Limit of Quantification; LOD = Limit of Detection

Health Canada and/or United States and/or European Union MRLs are taken from Health Canada & Global Database (where applicable) on the preparation date of this report. 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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