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CERTIFICATE OF ANALYSIS

Client information

Freedom Cannabis

9827 279 Street, Acheson T7X6J4, AB, Canada

Acheson, Canada, T7X 6J4

COA information

COA number	**230926_75257_PAR20977**
COA Date	**26-Sep-2023**
Analysis Request ID	**PAR20977**

Sample information

Sample Name	**2023-09-19AG1VR**	Sample Receiving Date	**22-Sep-2023**
Sample ID	**2023-09-19AG1VR**	Receiving Temperature	**21°C**
Laboratory ID	**PAT63145**	Analysis Date	**25-Sep-2023**
Method Ref.	**PAT-AM-019**		

Cannabinoids Profile

Compounds	Results (%w/w)	Results (mg/g)	LOQ(%)
CBC	0.599	5.990	0.010
CBD	0.166	1.660	0.010
CBDA	0.011	0.110	0.010
CBDV	<0.010	<0.100	0.010
CBG	1.542	15.420	0.010
CBGA	0.189	1.890	0.010
CBN	0.270	2.700	0.010
D8-THC	0.909	9.090	0.010
D9-THC	84.450	844.500	0.010
THCA-A	0.598	5.980	0.010
THCV	0.498	4.980	0.010
Total THC	**85.883**	**858.834**	
Total CBD	**0.176**	**1.756**	

85.883%
Total THC

0.176%
Total CBD

Total THC = THC + (THCA*0.877), Total CBD = CBD + (CBDA*0.877)
Total THC/CBD is calculated using the formulas to take into account the loss of carboxyl group during decarboxylation step.

Authorized by: Laboratory Manager

Signature:

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Details of testing

1. *LOQ- Limit of quantification*
2. *% w/w: percent (weight of analyte/ weight of product)*
3. *Results only apply to the items tested and to the sample(s) as received.*
4. *This report may not be distributed or reproduced except in full*

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CERTIFICATE OF ANALYSIS

Client information

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9827 279 Street, Acheson T7X6J4, AB, Canada

Acheson, Canada, T7X 6J4

COA information

COA number	**230928_75643_PAR20977**
COA Date	**28-Sep-2023**
Analysis Request ID	**PAR20977**

Sample information

Sample Name	**2023-09-19AG1VR**	Sample Receiving Date	**22-Sep-2023**
Sample ID	**2023-09-19AG1VR**	Receiving Temperature	**21°C**
Laboratory ID	**PAT63145**	Analysis Date	**27-Sep-2023**
Method Ref.	**PAT-AM-020 (USP 233 Modified)**		

Results Information

Heavy Metals	Results	Unit	Specification (Extracts intended for inhalation)	Compliance	LOQ
Arsenic	**<0.025**	ppm	<= 0.2	PASS	0.025
Cadmium	**<0.020**	ppm	<= 0.3	PASS	0.02
Lead	**<0.010**	ppm	<= 0.5	PASS	0.01
Mercury	**<0.005**	ppm	<= 0.1	PASS	0.005

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Signature:

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Sample information

Sample Name	**2023-09-19AG1VR**	Sample Receiving Date	**22-Sep-2023**
Sample ID	**2023-09-19AG1VR**	Receiving Temperature	**21°C**
Laboratory ID	**PAT63145**	Analysis Date	**27-Sep-2023**
Method Ref.	**PAT-AM-024**		

Results Information

Aflatoxins	Results	Unit	Specification (Extracts intended for inhalation)	Compliance	LOQ
Aflatoxin B1	**<0.002**	ppm	<= 0.002	PASS	0.002 ppm
Aflatoxin B2	**<0.002**	ppm	NA	NA	0.002 ppm
Aflatoxin G1	**<0.002**	ppm	NA	NA	0.002 ppm
Aflatoxin G2	**<0.002**	ppm	NA	NA	0.002 ppm
Total Aflatoxins (B1,B2,G1,G2)	**<0.002**	ppm	<= 0.004	PASS	0.002 ppm

Authorized by: Laboratory Manager

Signature:

Details of testing

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Sample information

Sample Name	**2023-09-19AG1VR**	Sample Receiving Date	**22-Sep-2023**
Sample ID	**2023-09-19AG1VR**	Receiving Temperature	**21°C**
Laboratory ID	**PAT63145**	Analysis Date	**27-Sep-2023**
Method Ref.	**PAT-AM-022**		

Terpenes Profile

Compounds	Results (%w/w)	Results (mg/g)	LOQ(%)
beta-Carophyllene	0.748	7.480	0.001
D-Limonene	0.697	6.970	0.001
Selina-3,7(11)-diene	0.597	5.970	0.001
Linalool	0.546	5.460	0.001
beta-Myrcene	0.512	5.120	0.001
alpha-Humulene	0.355	3.550	0.001
cis-Nerolidol	0.247	2.470	0.001
(-)-alpha-Bisabolol	0.225	2.250	0.001
Farnesene 3	0.220	2.200	0.005
Farnesene 1	0.145	1.450	0.005
1R-endo-Fenchyl-Alcohol	0.138	1.380	0.001
alpha-Pinene	0.123	1.230	0.001
alpha-Selinene	0.103	1.030	0.001
beta-Selinene	0.103	1.030	0.001
alpha-Terpineol	0.090	0.900	0.001
alpha-Cedrene	0.086	0.860	0.001
Farnesol 2	0.083	0.830	0.001
trans-beta-Farnesene	0.078	0.780	0.001
Farnesene 4	0.072	0.720	0.005
Camphene	0.049	0.490	0.001
Fenchone	0.036	0.360	0.001
Farnesene 2	0.027	0.270	0.005
Terpinen-4-ol/D-Isomenthone	0.025	0.250	0.001
Farnesene 5	0.023	0.230	0.005
cis-beta-Ocimene	0.017	0.170	0.005
Geraniol	0.015	0.150	0.001
trans-beta-Ocimene	0.012	0.120	0.001
beta-Pinene	0.010	0.100	0.001
Valencene	0.009	0.090	0.001
Farnesol 1	0.007	0.070	0.001
alpha-Terpinene	0.006	0.060	0.001
m-Isopropyltoluene	0.006	0.060	0.001
trans-Nerolidol	0.006	0.060	0.001
(-)-Guaiol	0.005	0.050	0.001
Cedrol	0.005	0.050	0.001
gamma-Terpinene	0.005	0.050	0.001
Menthol	0.004	0.040	0.001
Nerol	0.004	0.040	0.001
Nootkatone	0.004	0.040	0.001
Carophyllene Oxide	0.003	0.030	0.001

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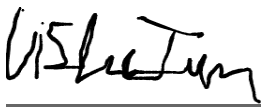
Compounds	Results (%w/w)	Results (mg/g)	LOQ(%)
Isobornyl Acetate	0.003	0.030	0.001
Piperitone	0.003	0.030	0.001
Squalene	0.003	0.030	0.001
(-)-Isopulegol	0.002	0.020	0.001
alpha-Phellandrene	0.002	0.020	0.001
Isoborneol	0.002	0.020	0.001
Terpinolene	0.002	0.020	0.001
1,8-Cineole (Eucalyptol)	<0.001	<0.010	0.001
alpha-Thujone	<0.001	<0.010	0.001
Borneol	<0.001	<0.010	0.001
Camphor	<0.001	<0.010	0.001
Carvacrol	<0.001	<0.010	0.001
Carvone	<0.001	<0.010	0.001
cis-Citral	<0.001	<0.010	0.001
Citronellol	<0.001	<0.010	0.001
delta-3-Carene	<0.001	<0.010	0.001
Geranyl Acetate	0.001	0.010	0.001
L-Menthone	<0.001	<0.010	0.001
Octyl Acetate	0.001	0.010	0.001
o-Isopropyltoluene	<0.001	<0.010	0.001
Phytane	<0.001	<0.010	0.001
p-Isopropyltoluene	<0.001	<0.010	0.001
Pulegone	<0.001	<0.010	0.001
Sabinene	<0.001	<0.010	0.001
Sabinene Hydrate	<0.001	<0.010	0.001
Safranal	0.001	0.010	0.001
Thymol	<0.001	<0.010	0.001
trans-Citral	0.001	0.010	0.001
Verbenone	<0.001	<0.010	0.001
Total Terpenes	**5.467**	**54.670**	

Authorized by: Laboratory Manager

Signature: 

Details of testing

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Sample information

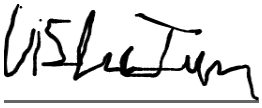
Sample Name	**2023-09-19AG1VR**	Sample Receiving Date	**22-Sep-2023**
Sample ID	**2023-09-19AG1VR**	Receiving Temperature	**21°C**
Laboratory ID	**PAT63145**	Analysis Date	**28-Sep-2023**
Method Ref.	**PAT-AM-021 (USP<467> Modified)**		

Residual Solvents Results Information

Compound Detected	Results (ppm)	RDL
2-Propanol (IPA)	**184.643**	50

Compounds Not Detected	Results (ppm)	RDL
1-Butanol	ND	50
1-Pentanol	ND	50
1-Propanol	ND	50
2-Butanol (sec-butly alcohol)	ND	50
2-Butanone (MEK)	ND	50
3-Methyl-1-butanol (isoamyl alcohol)	ND	50
Acetic acid	ND	5000
Acetone	ND	50
Anisole	ND	50
Butane	ND	5000
Butyl acetate	ND	50
Diethyl ether (ethyl ether)	ND	50
DMSO (Dimethyl sulfoxide)	ND	50
Ethanol	ND	50
Ethyl acetate	ND	50
Ethyl Formate	ND	50
Formic acid	ND	5000
Isobutanol (2-methyl-1-propanol)	ND	50
Isobutyl acetate	ND	50
Isopropyl acetate	ND	50
Methyl Acetate	ND	50
MIBK (4-Methyl-2-pentanone)	ND	50
MTBE (methyl-tert-butyl ether)	ND	50
n-Heptane (C7)	ND	50
n-Pentane (C5)	ND	50
Propane	ND	5000
Propyl acetate	ND	50
Triethylamine	ND	5000

Authorized by: Laboratory Manager

Signature: 

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Details of testing

1. *ppm (w/w): parts per million by weight, MRL: Maximum residue limits, RDL: Reporting detection limits*
2. *The compounds are ND (not detected) at or above the RDL*
3. *Health Canada and/or United States MRL are taken from Health Canada & Global MRL Database (where applicable) on the date of COA preparation*
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