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CERTIFICATE OF ANALYSIS

Client information

Amani Craft Cannabis Ltd.
Kelowna, Canada, V4V 1S5

COA information

COA number	**230509_57123_PAR15211_V2**
COA Date	**09-May-2023**
Analysis Request ID	**PAR15211**

Sample information

Sample Name	**Death Punch**	Sample Receiving Date	**21-Apr-2023**
Sample ID	**DEATHPUNCH-BULK001**	Receiving Temperature	**21°C**
Laboratory ID	**PAT47303**		

Results information

Analysis Date	Test	Method Ref.	Results	Units
26-Apr-2023	**Moisture**	PAT-AM-023(USP <731>)	**11.27**	%

Authorized by: Laboratory Manager

Signature:

Details of testing

1. *This COA has been revised from COA Number: 230426_55558_PAR15211*
2. *Results only apply to the items tested and to the sample(s) as received.*
3. *This report may not be distributed or reproduced except in full.*

This COA can be verified by scanning the QR code

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Sample information

Sample Name	**Death Punch**	Sample Receiving Date	**21-Apr-2023**
Sample ID	**DEATHPUNCH-BULK001**	Receiving Temperature	**21°C**
Laboratory ID	**PAT47303**	Analysis Date	**24-Apr-2023**
Method Ref.	**PAT-AM-019**		

Cannabinoids Profile

Compounds	Results (%w/w)	Results (mg/g)	LOQ(%)
CBC	<0.010	<0.100	0.010
CBD	<0.010	<0.100	0.010
CBDA	0.062	0.620	0.010
CBDV	<0.010	<0.100	0.010
CBG	0.111	1.110	0.010
CBGA	0.909	9.090	0.010
CBN	<0.010	<0.100	0.010
D8-THC	<0.010	<0.100	0.010
D9-THC	0.323	3.230	0.010
THCA-A	30.845	308.450	0.010
THCV	<0.010	<0.100	0.010
Total THC	**27.374**	**273.741**	
Total CBD	**0.054**	**0.544**	

27.374%
Total THC

0.054%
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: 

Details of testing

1. *This COA has been revised from COA Number: 230426_55558_PAR15211*
2. *LOQ- Limit of quantification*
3. *% w/w: percent (weight of analyte/ weight of product)*
4. *Results only apply to the items tested and to the sample(s) as received.*
5. *This report may not be distributed or reproduced except in full*

This COA can be verified by scanning the QR code

********** This is end of the Certificate of Analysis **********

Date : May 9, 2023

Certificate of Analysis – GC Profiling (Main Terpenes)

Sample identification

Internal code : 23D21-ACC01
Customer identification : DEATHPUNCH-BULK001
Type : Plant material
Source : *Cannabis sativa*
Customer : AMANI CRAFT CANNABIS LTD

Analysis

Method: Extraction of plant material with pentane, and addition of a methyl octanoate internal standard for quantitation. Application of a correction factor[1]. Analysis with PC-MAT-004 - Terpenes and volatiles profiling by response factor (in French); identifications validated by GC-MS.
Analyst : Amélie Simard, Analyste
Analysis date : April 26, 2023

Checked and approved by :

Alexis St-Gelais, Ph. D., chimiste 2013-174

Notes: This report may not be published, including online, without the written consent from Laboratoire PhytoChemia. This report is digitally signed, it is only considered valid if the digital signature is intact. The results only describe the samples that were submitted to the assays.

This report is an update from the first version issued on April 26, 2023, to update the customer identification.

Reference

(1) Cachet, T.; Brevard, H.; Chaintreau, A.; Demyttenaere, J.; French, L.; Gassenmeier, K.; Joulain, D.; Koenig, T.; Leijs, H.; Liddle, P.; et al. IOFI Recommended Practice for the Use of Predicted Relative-Response Factors for the Rapid Quantification of Volatile Flavouring *Compounds by GC-FID. Flavour Fragr. J. 2016, 31 (3), 191–194.*

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PHYSICOCHEMICAL DATA

Moisture content: 13.3% (method PC-MAT-024)

Anhydrous (dry) concentration is reported by taking into account the loss of mass of the plant dried at 105°C for several hours, giving results that are independent of the sample's residual moisture.

'As is' concentration stands for the directly measured concentration in the sample without correction for its moisture content.

ANALYSIS SUMMARY

Identification	Anhydrous (mg/g)	As is (mg/g)	Classe
Hexanol	0.01	0.01	Aliphatic alcohol
Hashishene	tr	tr	Monoterpene
α-Thujene	0.04	0.03	Monoterpene
α-Pinene	0.92	0.80	Monoterpene
Camphene	0.22	0.19	Monoterpene
α-Fenchene	0.01	0.01	Monoterpene
β-Pinene	1.46	1.27	Monoterpene
Sabinene	0.01	tr	Monoterpene
Myrcene	4.89	4.24	Monoterpene
α-Phellandrene	0.02	0.02	Monoterpene
α-Terpinene	0.01	0.01	Monoterpene
para-Cymene	0.01	0.01	Monoterpene
Limonene	8.56	7.42	Monoterpene
β-Phellandrene	0.04	0.03	Monoterpene
(*Z*)-β-Ocimene	0.03	0.02	Monoterpene
(*E*)-β-Ocimene	0.59	0.51	Monoterpene
γ-Terpinene	0.01	0.01	Monoterpene
cis-Sabinene hydrate	0.02	0.02	Monoterpenic alcohol
Fenchone	0.11	0.10	Monoterpenic ketone
Terpinolene	0.09	0.08	Monoterpene
trans-Sabinene hydrate	0.01	0.01	Monoterpenic alcohol
Linalool	0.62	0.54	Monoterpenic alcohol
endo-Fenchol	0.54	0.47	Monoterpenic alcohol
trans-Pinene hydrate	0.44	0.38	Monoterpenic alcohol
cis-Pinene hydrate	0.07	0.06	Monoterpenic alcohol
Camphene hydrate	0.03	0.02	Monoterpenic alcohol
Ipsdienol	0.07	0.06	Monoterpenic alcohol
Borneol	0.11	0.09	Monoterpenic alcohol
Terpinen-4-ol	0.02	0.02	Monoterpenic alcohol
para-Cymen-8-ol	tr	tr	Monoterpenic alcohol
α-Terpineol	0.47	0.41	Monoterpenic alcohol
Hexyl butyrate	0.01	tr	Aliphatic ester
Citronellol	0.02	0.01	Monoterpenic alcohol

Decanol	tr	tr	Aliphatic alcohol
α-Cubebene	0.01	0.01	Sesquiterpene
α-Ylangene	0.01	0.01	Sesquiterpene
Unknown	0.03	0.03	Sesquiterpene
Hexyl hexanoate	0.02	0.02	Aliphatic ester
β-Caryophyllene	2.72	2.36	Sesquiterpene
α-Santalene	0.01	0.01	Sesquiterpene
γ-Elemene	0.24	0.21	Sesquiterpene
trans-α-Bergamotene	0.28	0.25	Sesquiterpene
α-Guaiene	[0.28]	[0.25]	Sesquiterpene
α-Humulene	0.95	0.83	Sesquiterpene
allo-Aromadendrene	0.01	0.01	Sesquiterpene
(*E*)-β-Farnesene	0.09	0.08	Sesquiterpene
Unknown	0.08	0.07	Sesquiterpene
β-Selinene	0.19	0.17	Sesquiterpene
Valencene	0.01	0.01	Sesquiterpene
α-Selinene	0.20	0.17	Sesquiterpene
δ-Guaiene	0.04	0.03	Sesquiterpene
β-Bisabolene	0.09	0.08	Sesquiterpene
(3*E*,6*E*)-α-Farnesene	0.05	0.05	Sesquiterpene
Spirovetiva-1(10),7(11)-diene	0.10	0.09	Sesquiterpene
Eremophila-1(10),7(11)-diene	[0.10]	[0.09]	Sesquiterpene
Selina-4(15),7(11)-diene	0.37	0.32	Sesquiterpene
Selina-4,7(11)-diene?	0.01	0.01	Sesquiterpene
Selina-3,7(11)-diene	0.58	0.50	Sesquiterpene
(*E*)-α-Bisabolene	0.78	0.68	Sesquiterpene
Germacrene B	0.50	0.43	Sesquiterpene
Eudesma-5,7(11)-diene	0.02	0.01	Sesquiterpene
(*E*)-Nerolidol	0.02	0.02	Sesquiterpenic alcohol
Caryophyllene oxide	0.05	0.05	Sesquiterpenic ether
Guaiol	0.61	0.53	Sesquiterpenic alcohol
Humulene epoxide II	0.05	0.04	Sesquiterpenic ether
10-epi-γ-Eudesmol	0.57	0.49	Sesquiterpenic alcohol
Selin-6-en-4α-ol isomer	0.02	0.02	Sesquiterpenic alcohol
Selin-6-en-4α-ol	0.02	0.01	Sesquiterpenic alcohol
γ-Eudesmol	0.10	0.09	Sesquiterpenic alcohol
β-Eudesmol	0.30	0.26	Sesquiterpenic alcohol
α-Eudesmol	0.34	0.30	Sesquiterpenic alcohol
Bulnesol	0.60	0.52	Sesquiterpenic alcohol
(3*Z*)-Caryophylla-3,8(13)-dien-5β-ol	0.02	0.02	Sesquiterpenic alcohol
α-Bisabolol	0.72	0.62	Sesquiterpenic alcohol
Juniper camphor	0.04	0.04	Sesquiterpenic alcohol
Aromadendrane-4,10-diol	0.02	0.02	Sesquiterpenic alcohol
(2*E*,6*E*)-Farnesol	0.01	0.01	Sesquiterpenic alcohol
Cryptomeridiol	0.07	0.06	Sesquiterpenic alcohol
meta-Camphorene	0.01	0.01	Diterpene
Phytol	0.14	0.12	Diterpenic alcohol
Consolidated total	**30.56 mg/g**	**26.51 mg/g**	

*: Individual compounds concentration could not be found due to overlapping coelutions on columns considered
[xx]: Duplicate percentage due to coelutions, not taken into account in the consolidated total
tr: < 0.01 mg/g

Individual compounds contents were corrected following the method of Cachet et al., 2016 (Flavour and Fragrance Journal guidelines).
Unknown compounds are expressed in equivalents of internal standard without correction.

About "consolidated" data: The table above presents the breakdown of the sample volatile constituents after applying an algorithm to collapse data acquired from the multi-columns system of PhytoChemia into a single set of consolidated contents. In case of discrepancies between columns, the algorithm is set to prioritize data from the most standard DB-5 column, and smallest values so as to avoid overestimating individual content. This process is semi-automatic. Advanced users are invited to consult the "Full analysis data" table after the chromatograms in this report to access the full untreated data and perform their own calculations if needed.

Unknowns: Unknown compounds' mass spectral data is presented in the "Full analysis data" table. The occurrence of unknown compounds is to be expected in many samples, and does not denote particular problems unless noted otherwise in the conclusion.

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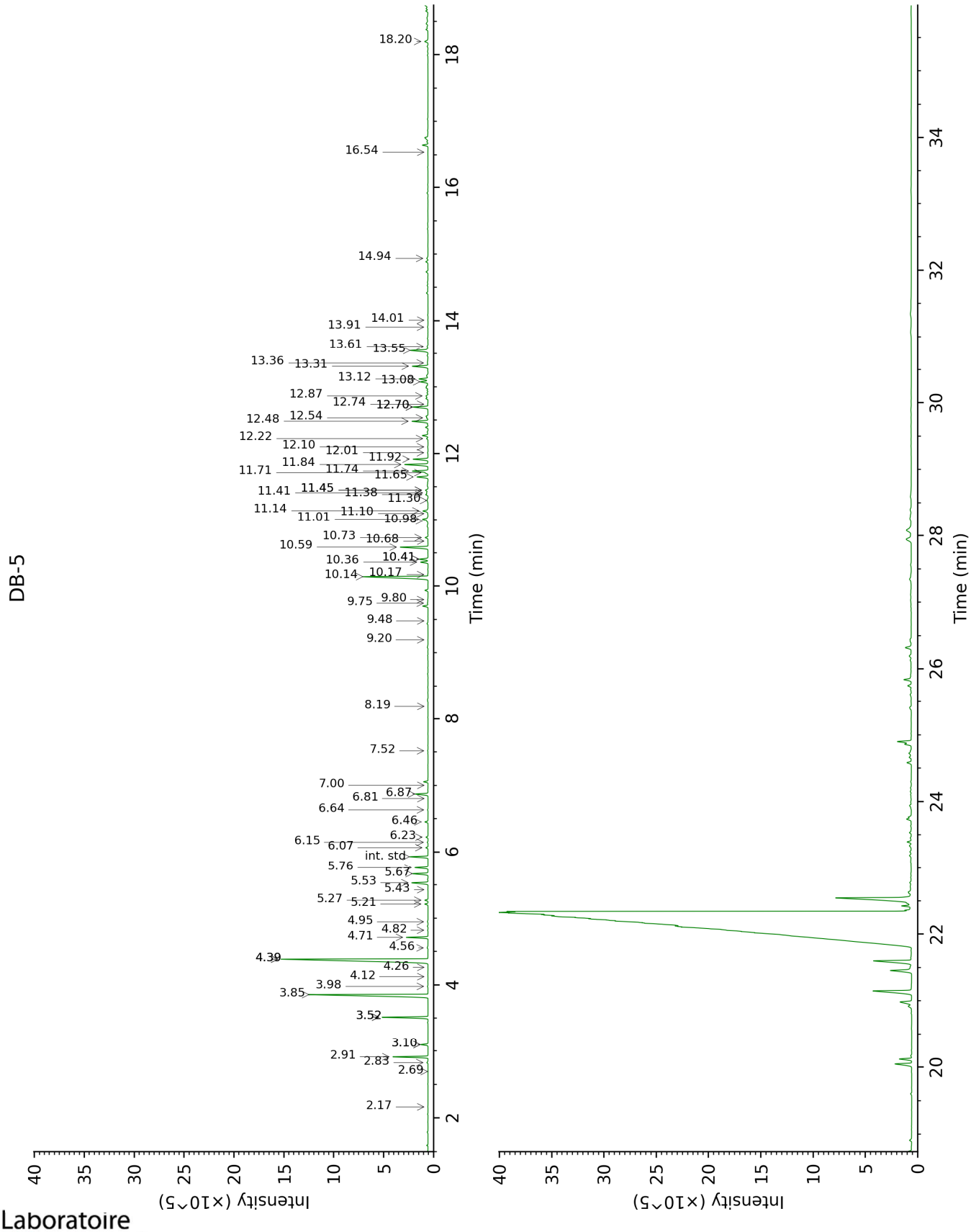
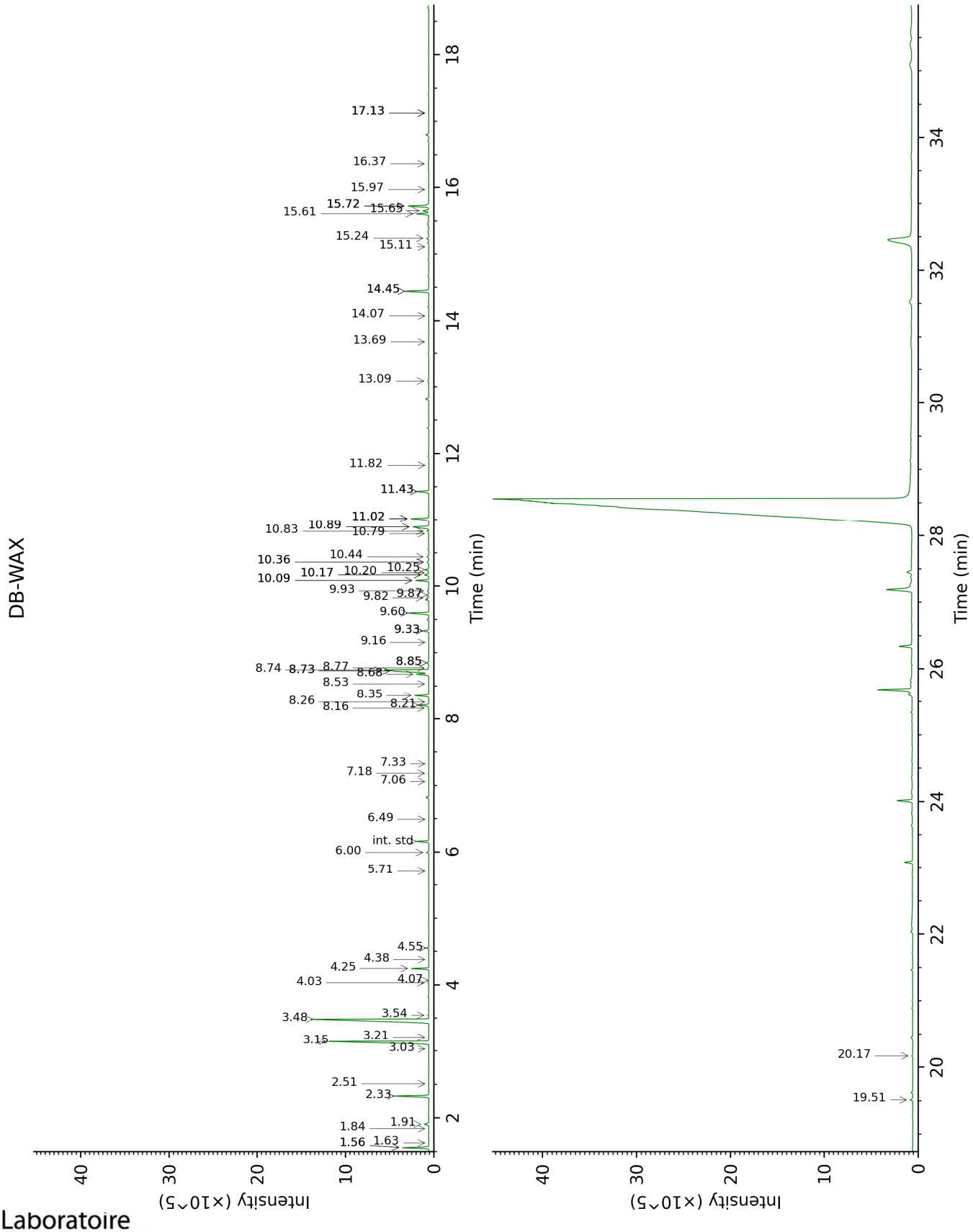

DB-5
Intensity (×10^5)
Time (min)
18.20
16.54
14.94
14.01
13.91
13.61
13.55
13.36
13.31
13.12
13.08
12.87
12.74
12.70
12.48
12.54
12.22
12.10
12.01
11.92
11.84
11.74
11.71
11.65
11.45
11.41
11.38
11.30
11.14
11.10
11.01
10.98
10.73
10.68
10.59
10.41
10.36
10.17
10.14
9.80
9.75
9.48
9.20
8.19
7.52
7.00
6.87
6.81
6.64
6.46
6.23
6.15
6.07
int. std
5.76
5.67
5.53
5.43
5.27
5.21
4.95
4.82
4.71
4.56
4.39
4.26
4.12
3.98
3.85
3.52
3.10
2.91
2.83
2.69
2.17


DB-WAX
Intensity (×10^5)
Time (min)
17.13
16.37
15.97
15.72
15.65
15.61
15.24
15.11
14.45
14.07
13.69
13.09
11.82
11.43
11.02
10.89
10.83
10.79
10.44
10.36
10.25
10.20
10.17
10.09
9.93
9.87
9.82
9.60
9.33
9.16
8.85
8.77
8.74
8.73
8.68
8.53
8.35
8.26
8.21
8.16
7.33
7.18
7.06
6.49
int. std
6.00
5.71
4.55
4.38
4.25
4.07
4.03
3.54
3.48
3.21
3.15
3.03
2.51
2.33
1.91
1.84
1.63
1.56
20.17
19.51

FULL ANALYSIS DATA

Identification	Column DB-5				Column DB-WAX			
	R.T	R.I	Anhydrous (mg/g)	As is (mg/g)	R.T	R.I	Anhydrous (mg/g)	As is (mg/g)
Hexanol	2.17	874	0.01	0.01	5.71	1325	0.01	0.01
Hashishene	2.70	917	tr	tr	1.56*	995	1.04	0.90
α-Thujene	2.83	926	0.04	0.03	1.63	1002	0.01	0.01
α-Pinene	2.91	932	0.92	0.80	1.56*	995	[1.04]	[0.90]
Camphene	3.10*	944	0.20	0.18	1.91	1028	0.22	0.19
α-Fenchene	3.10*	944	[0.20]	[0.18]	1.84	1022	0.01	0.01
β-Pinene	3.52*	973	1.31	1.14	2.33	1068	1.46	1.27
Sabinene	3.52*	973	[1.31]	[1.14]	2.51	1086	0.01	tr
Myrcene	3.86	996	4.89	4.24	3.14	1136	5.46	4.74
α-Phellandrene	3.98	1004	0.02	0.02	3.03	1128	0.01	0.01
α-Terpinene	4.12	1014	0.01	0.01	3.21	1142	0.02	0.02
para-Cymene	4.26	1022	0.01	0.01	4.38	1230	tr	tr
Limonene	4.39*	1030	7.69	6.67	3.48	1162	8.56	7.42
β-Phellandrene	4.39*	1030	[7.69]	[6.67]	3.54	1167	0.04	0.03
(*Z*)-β-Ocimene	4.56	1041	0.03	0.02	4.03	1204	0.04	0.03
(*E*)-β-Ocimene	4.71	1051	0.59	0.51	4.25	1220	0.66	0.57
γ-Terpinene	4.82	1058	0.01	0.01	4.07	1207	0.01	0.01
cis-Sabinene hydrate	4.95	1066	0.02	0.02	7.18	1430	0.02	0.02
Fenchone	5.21	1083	0.11	0.10	6.00	1346	0.12	0.10
Terpinolene	5.27	1086	0.09	0.08	4.55	1242	0.09	0.08
trans-Sabinene hydrate	5.43	1096	0.01	0.01	8.26	1509	0.02	0.02
Linalool	5.53	1103	0.62	0.54	8.35	1516	0.67	0.58
endo-Fenchol	5.67	1112	0.54	0.47	8.68†	1542	4.39	3.81
trans-Pinene hydrate	5.76	1118	0.44	0.38	8.21†	1505	[0.55]	[0.48]
cis-Pinene hydrate	6.07	1138	0.07	0.06	8.85*	1554	0.13	0.11
Camphene hydrate	6.15	1143	0.03	0.02	8.77	1548	0.05	0.04
Ipsdienol	6.23	1148	0.07	0.06	9.93	1639	0.09	0.07
Borneol	6.46	1162	0.11	0.09	10.09*	1651	0.65	0.57
Terpinen-4-ol	6.64	1174	0.02	0.02	8.85*	1554	[0.13]	[0.11]
para-Cymen-8-ol	6.81	1185	tr	tr	11.82	1795	0.01	0.01
α-Terpineol	6.87	1189	0.47	0.41	10.09*	1651	[0.65]	[0.57]
Hexyl butyrate	7.00	1198	0.01	tr	6.49	1380	tr	tr
Citronellol	7.52	1232	0.02	0.01	11.02*	1728	0.95	0.83
Decanol	8.19	1277	tr	tr	11.02*	1728	[0.94]	[0.81]
α-Cubebene	9.20	1347	0.01	0.01	7.06	1421	0.01	tr
α-Ylangene	9.48	1367	0.01	0.01	7.33	1441	0.01	0.01
Unknown [m/z 108, 91 (77), 93 (69), 107 (62), 105 (58), 79 (56)... 204 (26)]	9.75	1386	0.03	0.03	8.16†	1502	0.63	0.55
Hexyl hexanoate	9.80	1389	0.02	0.02	9.16	1578	0.02	0.01

β-Caryophyllene	10.14	1414	2.72	2.36	8.74†	1546	[3.80]	[3.29]
α-Santalene	10.17	1416	0.01	0.01	8.53	1530	0.04	0.04
γ-Elemene	10.36	1430	0.24	0.21	9.33*	1591	0.27	0.23
trans-α-Bergamotene	10.41*	1434	0.28	0.25	8.73*†	1545	[3.80]	[3.29]
α-Guaiene	10.41*	1434	[0.28]	[0.25]	8.73*†	1545	[3.80]	[3.29]
α-Humulene	10.59	1447	0.95	0.83	9.60	1612	1.03	0.89
allo-Aromadendrene	10.68	1454	0.01	0.01	9.33*	1591	[0.27]	[0.23]
(*E*)-β-Farnesene	10.73	1458	0.09	0.08	9.82	1630	0.10	0.08
Unknown [m/z 189, 133 (75), 91 (71), 105 (69), 93 (44)... 204 (33)]	10.98	1477	0.08	0.07	9.87	1634	0.12	0.11
β-Selinene	11.01	1479	0.19	0.17	10.17*	1658	0.22	0.19
Valencene	11.10	1485	0.01	0.01	10.17*	1658	[0.22]	[0.19]
α-Selinene	11.14	1488	0.20	0.17	10.25	1664	0.18	0.16
δ-Guaiene	11.30	1500	0.04	0.03	10.20	1660	0.03	0.03
β-Bisabolene	11.38†	1507	0.14	0.13	10.44	1680	0.09	0.08
(3*E*,6*E*)-α-Farnesene	11.41†	1509	[0.14]	[0.13]	10.79†	1708	0.11	0.10
Spirovetiva-1(10),7(11)-diene	11.45*	1512	0.10	0.09	10.36*	1673	0.10	0.09
Eremophila-1(10),7(11)-diene	11.45*	1512	[0.10]	[0.09]	10.36*	1673	[0.10]	[0.09]
Selina-4(15),7(11)-diene	11.65	1528	0.37	0.32	10.89*	1717	0.95	0.83
Selina-4,7(11)-diene?	11.72†	1533	0.60	0.52	10.83†	1712	[0.11]	[0.10]
Selina-3,7(11)-diene	11.74†	1535	[0.60]	[0.52]	10.89*	1717	[0.95]	[0.83]
(*E*)-α-Bisabolene	11.84	1542	0.78	0.68	11.02*	1728	[0.84]	[0.73]
Germacrene B	11.92	1549	0.50	0.43	11.43*	1762	0.54	0.47
Eudesma-5,7(11)-diene	12.01	1556	0.02	0.01	11.43*	1762	[0.54]	[0.47]
(*E*)-Nerolidol	12.10	1563	0.02	0.02	14.07	1997	0.01	0.01
Caryophyllene oxide	12.22	1573	0.05	0.05	13.09	1906	0.07	0.06
Guaiol	12.48	1594	0.61	0.53	14.45*	2032	1.24	1.08
Humulene epoxide II	12.54	1598	0.05	0.04	13.68	1961	0.03	0.03
10-epi-γ-Eudesmol	12.70*	1610	0.59	0.51	14.45*	2032	[1.24]	[1.08]
Selin-6-en-4α-ol isomer	12.70*	1610	[0.59]	[0.51]	15.11	2096	0.02	0.02
Selin-6-en-4α-ol	12.74	1614	0.02	0.01	15.97	2182	0.02	0.02
γ-Eudesmol	12.86	1624	0.10	0.09	15.24	2109	0.12	0.11
β-Eudesmol	13.08	1642	0.30	0.26	15.72*	2157	1.19	1.03
α-Eudesmol	13.12	1646	0.34	0.30	15.65	2150	0.32	0.28
Bulnesol	13.31	1661	0.60	0.52	15.61	2146	0.63	0.54
(3*Z*)-Caryophylla-	13.36	1665	0.02	0.02	17.13*	2302	0.03	0.03

3,8(13)-dien-5β-ol								
α-Bisabolol	13.55	1681	0.72	0.62	15.72*	2157	[1.19]	[1.03]
Juniper camphor	13.61	1686	0.04	0.04	16.37	2223	0.04	0.04
Aromadendrane-4,10-diol	13.91	1711	0.02	0.02	17.13*	2302	[0.03]	[0.03]
(2*E*,6*E*)-Farnesol	14.01	1720	0.01	0.01	17.13*	2302	[0.03]	[0.03]
Cryptomeridiol	14.94	1800	0.07	0.06	20.17	2647	0.05	0.05
meta-Camphorene	16.54	1948	0.01	0.01	15.72*	2157	[1.08]	[0.94]
Phytol	18.20	2111	0.14	0.12	19.51	2569	0.15	0.13

*: Two or more compounds are coeluting on this column
[xx]: Duplicate percentage due to coelutions, not taken into account in the consolidated total
†: Peaks apexes were resolved, but peaks overlapped and were summed for analysis
tr: The compound has been detected below 0.005% of total signal.

Individual compounds contents were corrected following the method of Cachet et al., 2016 (Flavour and Fragrance Journal guidelines).
Unknown compounds are expressed in equivalents of internal standard without correction.
R.T.: Retention time (minutes)
R.I.: Retention index

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CERTIFICATE OF ANALYSIS

Client:	Amani Craft Cannabis Ltd.	Order-Sample No:	00142-01
Sample Name:	DEATHPUNCH-BULK001	Date Received:	27-Apr-23
Sample Matrix:	Dried Flower	Date Reported:	9-May-23
Lot No:			

SUMMARY

Heavy Metals	Within Limit
Toxicology	Within Limit
Pesticides	Within Limit
Microbials	Within Limit

Legend:

LOQ	Limit of Quantification
<LOQ	Below Limit of Quantification
ppm	Parts Per Million (µg/g for dry weight)
ppb	Parts Per Billion (ng/g for dry weight)
ND	Not Detected

¥ indicates results ouside of limit.
† ISO 17025 accredited method

Results in **RED** are outside of limit
Results in **GREEN** are within limit

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Lab Manager

INNOVATE Phytoceuticals

CERTIFICATE OF ANALYSIS

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Sample Name:	DEATHPUNCH-BULK001	Date Received:	27-Apr-23
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Lot No:			

HEAVY METALS ANALYSIS

Analyte	Results [ppb]	LOQ [ppb]	Limits [ppb]
Arsenic	14.66	1	2000
Cadmium	3.65	1	2000
Mercury	1.14	1	1000
Lead	<LOQ	1	5000

Adopted USP<232> and <233> methods.

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Lot No:			

TOXICOLOGY ANALYSIS

Analyte	Results [ppb]	LOQ [ppb]	Limits [ppb]
Aflatoxin B1	ND	0.3	<5
Aflatoxin B2	ND	1	
Aflatoxin G1	ND	1	
Aflatoxin G2	ND	1	
Sum B1,B2,G1,G2	ND		<20

USP limits for Aflatoxins: Sum of Aflatoxins B1, B2, G1, G2 must be less than 20ppb.

Adopted method based on USP<561>

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INNOVATE Phytoceuticals

CERTIFICATE OF ANALYSIS

Client: Amani Craft Cannabis Ltd.
Sample Name: DEATHPUNCH-BULK001
Sample Matrix: Dried Flower
Lot No:

Order-Sample No: 00142-01
Date Received: 27-Apr-23
Date Reported: 9-May-23

PESTICIDE ANALYSIS

Analyte	LOQ [ppb]	Results [ppb]	Analyte	LOQ [ppb]	Results [ppb]	Analyte	LOQ [ppb]	Results [ppb]
Abamectin	5	ND	Endosulfan sulfate**	25	ND	Paclobutrazol	5	ND
Acephate	5	ND	Endosulfan-alpha**	50	ND	Parathion-methyl**	25	ND
Acequinocyl	5	ND	Endosulfan-beta**	25	ND	Permethrin	5	ND
Acetamiprid	5	ND	Ethoprophos	5	ND	Phenothrin	5	ND
Aldicarb	5	ND	Etofenprox	5	ND	Phosmet	5	ND
Allethrin	5	ND	Etoxazole	5	ND	Piperonyl butoxide	5	ND
Azadirachtin	5	ND	Etridiazole**	5	ND	Pirimicarb	5	ND
Azoxystrobin	5	ND	Fenoxycarb	5	ND	Prallethrin	5	ND
Benzovindiflupyr	5	ND	Fenpyroximate	5	ND	Propiconazole	5	ND
Bifenazate	5	ND	Fensulfothion	5	ND	Propoxur	5	ND
Bifenthrin	5	ND	Fenthion	5	ND	Pyraclostrobin	5	ND
Boscalid	5	ND	Fenvalerate	5	ND	Pyrethrins	5	ND
Buprofezin	5	ND	Fipronil	5	ND	Pyridaben	5	ND
Carbaryl	5	ND	Flonicamid	5	ND	Quintozene**	5	ND
Carbofuran	5	ND	Fludioxonil	5	ND	Resmethrin	5	ND
Chlorantraniliprole	5	ND	Fluopyram	5	ND	Spinetoram	5	ND
Chlorphenapyr**	25	ND	Hexythiazox	5	ND	Spinosad	5	ND
Chlorpyrifos	5	ND	Imazalil	5	ND	Spirodiclofen	5	ND
Clofentezine	5	ND	Imidacloprid	5	ND	Spiromesifen	5	ND
Clothianidin	5	ND	Iprodione	5	ND	Spirotetramat	5	ND
Coumaphos	5	ND	Kinoprene**	25	ND	Spiroxamine	5	ND
Cyantraniliprole	5	ND	Kresoxim-methyl	5	ND	Tebuconazole	5	ND
Cyfluthrin**	100	ND	Malathion	5	ND	Tebufenozide	5	ND
Cypermethrin**	100	ND	Metalaxyl	5	ND	Teflubenzuron	5	ND
Cyprodinil	5	ND	Methiocarb	5	ND	Tetrachlorvinphos	5	ND
Daminozide	5	ND	Methomyl	5	ND	Tetramethrin	5	ND
Deltamethrin	5	ND	Methoprene	5	ND	Thiacloprid	5	ND
Diazinon	5	ND	Mevinphos	5	ND	Thiamethoxam	5	ND
Dichlorvos	5	ND	MGK-264**	25	ND	Thiophanate-methyl	5	ND
Dimethoate	5	ND	Myclobutanil	5	ND	Trifloxystrobin	5	ND
Dimethomorph	5	ND	Naled	5	ND			
Dinotefuran	5	ND	Novaluron	5	ND			
Dodemorph	5	ND	Oxamyl	5	ND			

**Detectable only by GC-MS

Please see the appendix for Health Canada pesticide reporting limits

Adopted method based on USP<561>

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INNOVATE Phytoceuticals

CERTIFICATE OF ANALYSIS

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Lot No:			

MICROBIAL ANALYSIS

Microbial Assays	Results [CFU/g]	Limits [CFU/g or, CFU/ml]
Total Aerobic Plate Count	<1000	<100,000
Total Yeast and Mold Count	723	<1,000
Bile Tolerant Gram (-) Bacteria	<1000	<1,000
E. coli	Absent	Absence in 10g
Salmonella spp.	Absent	Absence in 10g
S. aureus	Absent	Absence in 1g
P. aeruginosa	Absent	Absence in 1g

Adopted method based on USP<61><62>

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INNOVATE Phytoceuticals

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Sample Name: DEATHPUNCH-BULK001
Sample Matrix: Dried Flower
Lot No:

Order-Sample No: 00142-01
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Date Reported: 9-May-23

Appendix

Pesticides Reporting Limits (Health Canada)

Analyte	Fresh [ppb]	Dry [ppb]	Oil [ppb]	Analyte	Fresh [ppb]	Dry [ppb]	Oil [ppb]
Abamectin	250	100	250	Hexythiazox	10	10	N/A
Acephate	50	20	50	Imazalil	10	50	10
Acequinocyl	50	30	N/A	Imidacloprid	10	20	10
Acetamiprid	50	100	50	Iprodione	500	1000	500
Aldicarb	500	1000	500	Kinoprene**	50	500	1250
Allethrin	100	200	100	Kresoxim-methyl	10	20	150
Azadirachtin	500	1000	500	Malathion	10	20	10
Azoxystrobin	10	20	10	Metalaxyl	10	20	10
Benzovindiflupyr	10	20	10	Methiocarb	10	20	10
Bifenazate	50	20	10	Methomyl	50	50	25
Bifenthrin	100	1000	N/A	Methoprene	1000	2000	N/A
Boscalid	10	20	10	Mevinphos	25	50	25
Buprofezin	10	20	N/A	MGK-264**	50	50	N/A
Carbaryl	25	50	25	Myclobutanil	10	20	10
Carbofuran	10	20	10	Naled	200	100	N/A
Chlorantraniliprole	10	20	N/A	Novaluron	25	50	25
Chlorphenapyr**	100	50	1500	Oxamyl	1500	3000	1500
Chlorpyrifos	10	40	500	Paclobutrazol	10	20	10
Clofentezine	10	20	10	Parathion-methyl**	30	50	N/A
Clothianidin	25	50	25	Permethrin	500	500	N/A
Coumaphos	10	20	10	Phenothrin	25	50	N/A
Cyantraniliprole	10	20	10	Phosmet	10	20	N/A
Cyfluthrin**	1000	200	N/A	Piperonyl butoxide	250	200	1250
Cypermethrin**	1000	300	N/A	Pirimicarb	10	20	10
Cyprodinil	250	250	10	Prallethrin	50	50	N/A
Daminozide	50	100	N/A	Propiconazole	10	100	N/A
Deltamethrin	1000	500	N/A	Propoxur	10	20	10
Diazinon	10	20	N/A	Pyraclostrobin	10	20	10
Dichlorvos	50	100	50	Pyrethrins	25	50	N/A
Dimethoate	10	20	10	Pyridaben	25	50	20
Dimethomorph	50	50	N/A	Quintozene**	10	20	N/A
Dinotefuran	50	100	50	Resmethrin	20	100	50
Dodemorph	50	50	N/A	Spinetoram	10	20	10
Endosulfan sulfate**	500	50	2500	Spinosad	10	100	10
Endosulfan-alpha**	100	200	2500	Spirodiclofen	250	250	N/A
Endosulfan-beta**	500	50	2500	Spiromesifen	50	3000	N/A
Ethoprophos	10	20	10	Spirotetramat	100	20	10
Etofenprox	10	50	N/A	Spiroxamine	10	100	N/A
Etoxazole	10	20	N/A	Tebuconazole	10	50	10
Etridiazole**	10	30	150	Tebufenozide	10	20	10
Fenoxycarb	10	20	10	Teflubenzuron	25	50	25
Fenpyroximate	20	20	N/A	Tetrachlorvinphos	10	20	10
Fensulfothion	10	20	10	Tetramethrin	50	100	N/A
Fenthion	10	20	10	Thiacloprid	10	20	10
Fenvalerate	100	100	N/A	Thiamethoxam	10	20	10
Fipronil	10	60	10	Thiophanate-methyl	30	50	N/A
Flonicamid	25	50	25	Trifloxystrobin	10	20	10
Fludioxonil	10	20	10				
Fluopyram	10	20	10				

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